Index of Authors and Titles

Abmayr, S. M. See Rushton, E.

Acampora, D., Mazan, S., Lallemand, Y., Avantaggiato, V., Maury, M., Simeone, A. and Brñlet, P. Forebrain and midbrain regions are deleted in Otx2-- mutants due to a defective anterior neuroectoderm specification during gastrulation 121, 3279

Adamson, T. E. See Brower, D. L.

Adler, H. T. See Talbert, P. B.

Adler, P. N. See Krasnow, R. E.

Agarwal, V. R. See Witta, S. E.

Akam, M. See Castelli-Gair, J.

Akhurst, R. J. See Dickson, M. C.

Akimenko, M.-A., Johnson, S. L., Westerfield, M. and Ekker, M. Differential induction of four msx homeobox genes during fin development and regeneration in zebrafish 121. 347

Alexander, C. M. See Behrendtsen, O.

Ali, Z. See Tabata, T.

Alldus, G. See Xu, Q.

Amaya, E. See Robbie, E. P.

Ambros, V. See Liu, Z. Ambros, V. See Rougvie, A. E.

Amrein, H. See Hilfiker, A.

Amselgruber, W. See Moser, M.

Anderson, D. J. See Groves, A. K.

Andreazzoli, M. See Pannese, M. Andres, A. J. and Thummel, C. S. The

Drosophila 63F early puff contains E63-1, an ecdysone-inducible gene that encodes a novel Ca2+-binding protein 121, 2667

Andrews, C. M. See Murphy, A. M.

Aparicio, S. See Streit, A.

Apfeld, J. See Curtis, D.

Appel, B., Korzh, V., Glasgow, E., Thor, S., Edlund, T., Dawid, I. B. and Eisen, J. S. Motoneuron fate specification revealed by patterned LIM homeobox gene expression in embryonic zebrafish 121, 4117

Aragnol, D. See Graba, Y.

Arcellana-Panlilio, M. Y. See Harvey, M. B.

Arkell, R. M. See Harrison, S. M.

Artavanis-Tsakonas, S. See Matsuno, K.

Artzt, K. See O'Neill, M. J.

Asashima, M. See Kinoshita, K.

Ataliotis, P., Symes, K., Chou, M. M., Ho, L. and Mercola, M. PDGF signalling is required for gastrulation of Xenopus laevis 121, 3099

Atherton, A. See Niranjan, B.

Austin, C. P., Feldman, D. E., Ida Jr., J. A. and Cepko, C. L. Vertebrate retinal ganglion cells are selected from competent progenitors by the action of Notch 121, 3637

Avantaggiato, V. See Acampora, D.

Ayabe, T., Kopf, G. S. and Schultz, R. M. Regulation of mouse egg activation: presence of ryanodine receptors and effects of microinjected ryanodine and cyclic ADP ribose on uninseminated and inseminated eggs

121, 2233 Babyatsky, M. W. See Sharp, R.

Bader, D. See Gannon, M.

Bae, E. See Nagoshi, R. N.

Bailey, J. L. See Visconti, P. E.

Baima, S., Nobili, F., Sessa, G., Lucchetti, S., Ruberti, I. and Morelli, G. The expression of the Athb 8 homeobox gene is restricted to provascular cells in Arabidopsis thaliana 121,

Baker, B. S. See Bashaw, G. J.

Baker, B. S. See Gorman, M.

Baker, B. S. See Pultz, M. A.

Baker, R. and Schubiger, G. Ectoderm induces muscle-specific gene expression in Drosophila embryos 121, 1387

Baldwin, H. S. See Kwee, L.

Banerjee, U. See Rogge, R. Bannerman, P. G. C. See Scherer, S. C.

Bansal, R. See Ono, K.

Barde, Y .- A. See Biffo, S.

Barde, Y .- A. See Brill, G.

Barnett, S. C., Rosario, M., Doyle, A., Kilbey, A., Lovatt, A. and Gillespie, D. A. F. Differential regulation of AP-1 and novel

TRE-specific DNA-binding complexes during differentiation of oligodendrocyte-type-2astrocyte (O-2A) progenitor cells 121, 3969

Barsacchi, G. See Pannese, M.

Barsh, G. S. See Millar, S. E.

Barth, K. A. and Wilson, S. W. Expression of zebrafish nk2.2 is influenced by sonic hedgehog/vertebrate hedgehog- and demarcates a zone of neuronal differentiation in the embryonic forebrain 121, 1755

Barth, K. A. See Macdonald, R.

Bartlett, P. F. See Ware, C. B.

Barton, S. C. See Sasaki, H.

Bashaw, G. J. and Baker, B. S. The msl-2 dosage compensation gene of Drosophila encodes a putative DNA-binding protein whose expression is sex specifically regulated by Sex-lethal 121, 3245

Basler, K. See Zecca, M.

Basset, P. See Lefebvre, O.

Bastiani, M. J. See Ganfornina, M. D.

Bastiani, M. J. See Sanchez, D.

Bate, M. See Baylies, M. K.

Bate, M. See Borkowski, O. M. D.

Bate, M. See Currie, D. A.

Bate, M. See Rushton, E. Bauer, R. See Moser, M.

Bay, B.-H. See Stoker, A. W.

Baylies, M. K., Martinez Arias, A. and Bate, M. wingless is required for the formation of a

subset of muscle founder cells during Drosophila embryogenesis 121, 3829

Bazan, J. F. See Guimares, M. J.

Beachy, P. A. See Chiang, C. Beachy, P. A. See Ekker, S. C.

Beachy, P. A. See Lai, C.-J.

Becker, S. See Wickramasinghe, D.

Becker, T., Berliner, A. J., Nitabach, M. N., Gan, W.-B. and Macagno, E. R. Targetinduced neurogenesis in the leech CNS involves efferent projections to the target 121,

Beddington, R. S. P. See Harrison, S. M. Beddington, R. S. P. See Wilson, V.

Begemann, G., Michon, A.-M., Voorn, L. v.d., Wepf, R. and Mlodzik, M. The Drosophila orphan nuclear receptor Seven-up requires the Ras pathway for its function in photoreceptor determination 121, 225

Behrendtsen, O., Alexander, C. M. and Werb, Z. Cooperative interactions between extracellular matrix, integrins and parathyroid hormone-related peptide regulate parietal endoderm differentiation in mouse embryos 121, 4137

Behringer, R. R. See Rivera-Perez, J. A. Belting, H.-G. See Shashikant, C. S.

Bender, W. See Chiang, A.

Bender, W. See Tiong, S. Y. K.

Benfey, P. N. See Hauser, M.-T. Benfey, P. N. See Scheres, B.

Bennett, D. C. See Sviderskaya, E. V.

Berenger, H. See Graba, Y.

Berg, C. A. See Rittenhouse, K. R.

Berliner, A. J. See Becker, T.

Berninger, B., Marty, S., Zafra, F., da Penha Berzaghi, M., Thoenen, H. and Lindholm, D. GABAergic stimulation switches from enhancing to repressing BDNF expression in rat hippocampal neurons during maturation in vitro 121, 2327

Bertram, J. F. See Tan, S.-S.

Bettenhausen, B., Hrabe de Angelis, M., Simon, D., Guenet, J.-L. and Gossler, A.

Transient and restricted expression during mouse embryogenesis of Dll1, a murine gene closely related to Drosophila Delta 121, 2407

Bhatnagar, P., Papaioannou, V. E. and Biggers, J. D. CSF-1 and mouse

preimplantation development in vitro 121,

Bieberich, C. J. See Shashikant, C. S.

Bielinska, M. See Soudais, C.

Bier, E. See Emery, J. F.

Bier, E. See Schmidt, J.

Bier, E. See Sturtevant, M. A.

Biffo, S., Offenhauser, N., Carter, B. D. and

Barde, Y .- A. Selective binding and internalisation by truncated receptors restrict the availability of BDNF during development 121 2461

Biggers, J. D. See Bhatnagar, P.

Birgbauer, E., Sechrist, J., Bronner-Fraser, M. and Fraser, S. Rhombomeric origin and rostrocaudal reassortment of neural crest cells revealed by intravital microscopy 121, 935

Bissen, S. T. Expression of the cell cycle control gene, cdc25, is constitutive in the segmental founder cells but is cell-cycle-regulated in the micromeres of leech embryos 121, 3035

Blair, S. S. See Rulifson, E. J. Blanar, M. A. See Cross, J. C.

Blaumueller, C. M. See Matsuno, K. Blitz, I. L. and Cho, K. W. Y. Anterior

neurectoderm is progressively induced during gastrulation: the role of the Xenopus homeobox gene orthodenticle 121, 993

Blum, M. See Yamada, G.

Blumberg, B. See Gardiner, D. M.

Bock, D. See Monaghan, A. P. Bockman, D. E. See Sharp, R.

Bode, H. R. See Grens, A.

Bodmer, R. See Brewster, R.

Bodmer, R. See Lawrence, P. A.

Boissy, Y. L. See Rosenbaum, T.

Boncinelli, E. See Pannese, M.

Bonnin, M.-A. See Grapin-Botton, A. Borbely, M. A. See Shashikant, C. S.

Borkowski, O. M. D., Brown, N. H. and Bate, M. Anterior-posterior subdivision and the diversification of the mesoderm in Drosophila

121.4183 Borowsky, M. L. See Margolis, J. S.

Boyan, G., Therianos, S., Williams, J. L. D. and Reichert, H. Axogenesis in the embryonic brain of the grasshopper Schistocerca gregaria: an identified cell analysis of early brain development 121, 75 Boyle, M. and DiNardo, S. Specification, migration and assembly of the somatic cells of the Drosophila gonad 121, 1815

Bradshaw, A. D., McNagny, K. M., Gervin, D. B., Cann, G. M., Graf, T. and Clegg, D. O. Integrin $\alpha_2\beta_1$ mediates interactions between developing embryonic retinal cells and collagen 121, 3593

Brand, A. H. See Hidalgo, A. Brand, S. J. See Sharp, R.

Brandhorst, B. P. See Wikramanayake, A. H.

Branford, W. See Hsieh-Li, H. M. Brannan, C. I. See Rosenbaum, T.

Bray, S. See Jennings, B. Breen, S. J. See Tan, S.-S.

Breitwieser, W. See Markussen, F.-H.

Brewster, R. and Bodmer, R. Origin and specification of type II sensory neurons in Drosophila 121, 2923

Brill, G., Kahane, N., Carmeli, C., von Schack, D., Barde, Y.-A. and Kalcheim, C. Epithelial-mesenchymal conversion of dermatome progenitors requires neural tubederived signals: characterization of the role of Neurotrophin-3 121, 2583

Britten, R. J. See Makabe, K. W. Britten, R. J. See Wang, D. G.-W. Brñlet, P. See Acampora, D.

Broadus, A. E. See Wysolmerski, J. J. Broadus, J. and Doe, C. Q. Evolution of

neuroblast identity: seven-up and prospero expression reveal homologous and divergent neuroblast fates in Drosophila and Schistocerca 121, 3989

Brock, H. W. See Serrano, N. Brockes, J. P. See Viviano, C. M.

Bronner-Fraser, M. See Birgbauer, E. Bronner-Fraser, M. See Dickinson, M. E.

Bronner-Fraser, M. See Krull, C. E.

Bronner-Fraser, M. See Sechrist, J. Bronner-Fraser, M. See Selleck, M. A. J.

Brophy, P. J. See Scherer, S. C.

Brower, D. L., Bunch, T. A., Mukai, L., Adamson, T. E., Wehrli, M., Lam, S., Friedlander, E., Roote, C. E. and Zusman, S. Nonequivalent requirements for PS1 and PS2 integrin at cell attachments in Drosophila: genetic analysis of the \$\alpha_{PS1}\$ integrin subunit

121, 1311 Brown, A. M. C. See Stern, H. M. Brown, D. See Cserjesi, P.

Brown, J. D. See Cui, Y.

Brown, J. M. See Haramis, A. G.

Brown, N. H. See Borkowski, O. M. D.

Brunet, J.-F. See Groves, A. K.

Brunk, B. P. See Goldhamer, D. J.

Bruzzone, R. See Paul, D. L.

Bryant, S. V. See Gardiner, D. M.

Buck, C. A. See Kwee, L. Buck, C. See Kwee, L.

Buckingham, M. E. See Tajbakhsh, S.

Buettner, R. See Moser, M. Buluwela, L. See Niranjan, B.

Bumcrot, D. A. See Marti, E.

Bunch, T. A. See Brower, D. L.

Bunch, T. D. See Yue, C.

Burchard, S. See Paululat, A.

Burke, A. C. See Roberts, D. J.

Burke, A. C., Nelson, C. E., Morgan, B. A. and Tabin, C. Hox genes and the evolution of vertebrate axial morphology 121, 333

Burke, B. See LaBonne, C. Burrell, M. R. See Gard, A. L. Burtis, K. C. See Fletcher, J. C. Busser, J. C. See Herrup, K.

Buxton, R. S. See Collins, J. E. Callahan, C. A. See Lundgren, S. E.

Campbell, G. and Tomlinson, A. Initiation of the proximodistal axis in insect legs 121, 619

Campion, E. See Christians, E. Cann, G. M. See Bradshaw, A. D.

Capdevila, J. See Guillen, I.

Capecchi, M. R. See Manley, N. R.

Capel, B. See Hacker, A.

Carlson, L. M. See Masteller, E. L. Carlton, M. B. L. See Dear, T. N.

Carmeli, C. See Brill, G.

Carmena, A. See Martin-Bermudo, M. D.

Carmo-Fonseca, M. See Ferreira, J.

Carpenter, M. K. See Ware, C. B.

Carpenter, R. and Coen, E. S. Transposon induced chimeras show that floricaula, a meristem identity gene, acts non-autonomously between cell layers 121, 19

Carpenter, R. See Hantke, S. S.

Carroll, J. See Jones, K. T.

Carroll, J. See Kono, T.

Carter, B. D. See Biffo, S. Carthew, R. W. See Zheng, L.

Cary, R. B. and Klymkowsky, M. W. Disruption of intermediate filament

organization leads to structural defects at the intersomite junction in Xenopus myotomal muscle 121, 1041

Casanova, J. See de Celis, J. F.

Casares, F. and Sanchez-Herrero, E.

Regulation of the infraabdominal regions of the bithorax complex of Drosophila by gap genes 121, 1855

Castelli-Gair, J. and Akam, M. How the Hox gene Ultrabithorax specifies two different segments: the significance of spatial and temporal regulation within metameres 121, 2973

Centanni, J. M. See Wickramasinghe, D.

Cepko, C. L. See Austin, C. P.

Chambon, P. See Lampron, C.

Chambon, P. See Lefebvre, O.

Chan, D. C., Laufer, E., Tabin, C. and Leder, P. Polydactylous limbs in Strong's Luxoid mice result from ectopic polarizing activity 121, 1971

Chan, D. C., Wynshaw-Boris, A. and Leder, P. Formin isoforms are differentially expressed in the mouse embryo and are required for normal expression of fgf-4 and shh in the limb bud 121, 3151

Chan, E. See Norman, D. J.

Chanut, F. and Heberlein, U. Role of the morphogenetic furrow in establishing polarity in the Drosophila eye 121, 4085

Charlton, W. L., Keen, C. L., Merriman, C., Lynch, P., Greenland, A. J. and Dickinson, H. G. Endosperm development in Zea mays; implication of gametic imprinting and paternal excess in regulation of transfer layer development 121, 3089

Chellaiah, A. T. See MacArthur, C. A.

Chen, L. See Forristall, C.

Chen, W.-H., Morriss-Kay, G. M. and Copp, A. J. Genesis and prevention of spinal neural tube defects in the curly tail mutant mouse: involvement of retinoic acid and its nuclear receptors RAR-β and RAR-γ 121, 681

Chen, X. See Frasch, M. Chenard, M.-P. See Lefebvre, O. Cheng, L. See Ware, C. B. Cheng, S. S. See Norman, D. J.

Cheyette, B. N. R. See Oliver, G.

Chia, C. M., Winston, R. M. L. and Handyside, A. H. EGF, TGF-α and EGFR expression in human preimplantation embryos 121, 299

Chia, W. See Harden, N.

Chiang, A., O'Connor, M. B., Paro, R., Simon, J. and Bender, W. Discrete Polycombbinding sites in each parasegmental domain of the bithorax complex 121, 1681

Chiang, C., Young, K. E. and Beachy, P. A. Control of Drosophila tracheal branching by the novel homeodomain gene unplugged, a regulatory target for genes of the bithorax complex 121, 3901

Chien, C.-B., Cornel, E. M. and Holt, C. E. Absence of topography in precociously innervated tecta 121, 2621

Cho, K. W. Y. See Blitz, I. L.

Chou, M. M. See Ataliotis, P.

Chow, K. L., Hall, D. H. and Emmons, S. W. The mab-21 gene of Caenorhabditis elegans encodes a novel protein required for choice of alternate cell fates 121, 3615

Chow, R. L., Roux, G. D., Roghani, M., Palmer, M. A., Rifkin, D. B., Moscatelli, D. A. and Lang, R. A. FGF suppresses apoptosis and induces differentiation of fibre cells in the mouse lens 121, 4383

Christian, J. L. See Cui, Y.

Christians, E. See Thompson, E. M.

Christians, E., Campion, E., Thompson, E. M. and Renard, J.-P. Expression of the HSP 70.1 gene, a landmark of early zygotic activity in the mouse embryo, is restricted to the first burst of transcription 121, 113

Chuang, P.-T. See Hsu, D. R.

Church, D. L., Guan, K.-L. and Lambie, E. J. Three genes of the MAP kinase cascade, mek-2, mpk-1/sur-1 and let-60 ras, are required for meiotic cell cycle progression in Caenorhabditis elegans 121, 2525

Clark, S. E., Running, M. P. and Meyerowitz, E. M. CLAVATA3 is a specific regulator of shoot and floral meristem development affecting the same processes as CLAVATA1 121, 2057

Clark, W. C. See Hodgetts, R. B. Clegg, D. O. See Bradshaw, A. D. Coen, E. S. See Carpenter, R.

Coen, E. S. See Hantke, S. S.

Cohen, D. See Qiao, J.

Cohen, R. S. See Serano, T. L.

Cohen, S. M. See Diaz-Benjumea, F. J.

Cohen, S. M. See Ng, M.

Colbert, M. See Fawcett, D.

Collazo, A. See Krull, C. E.

Colledge, W. H. See Dear, T. N.

Collins, J. E., Lorimer, J. E., Garrod, D. R., Pidsley, S. C., Buxton, R. S. and Fleming, T. P. Regulation of desmocollin transcription in mouse preimplantation embryos 121, 743

Comai, L. See Talbert, P. B. Conlon, R. A., Reaume, A. G. and Rossant, J. Notch1 is required for the coordinate

segmentation of somites 121, 1533 Connors, S. A. See Visconti, P. E.

Copeland, N. G. See Cross, J. C. Copeland, N. G. See Cserjesi, P.

Copeland, N. G. See Oliver, G.

Copeland, N. G. See Rosenbaum, T.

Copp, A. J. See Chen, W.-H. Core, N. See McCormick, A.

Cornel, E. M. See Chien, C.-B. Cornell, R. A., Musci, T. J. and Kimelman, D.

- FGF is a prospective competence factor for early activin-type signals in Xenopus mesoderm induction 121, 2429
- Costantini, F. See Pevny, L. Cousins, F. M. See Dickson, M. C.
- Cox, W. G. and Hemmati-Brivanlou, A. Caudalization of neural fate by tissue recombination and bFGF 121, 4349
- Cross, J. C., Flannery, M. L., Blanar, M. A., Steingrimsson, E., Jenkins, N. A., Copeland, N. G., Rutter, W. J. and Werb, Z. Hxt encodes a basic helix-loop-helix transcription factor that regulates trophoblast cell development 121, 2513
- Crossgrove, K. See Hodgetts, R. B. Crossley, P. H. and Martin, G. R. The mouse Fgf8 gene encodes a family of polypeptides and is expressed in regions that direct outgrowth and patterning in the developing embryo 121, 439
- Cserjesi, P., Brown, D., Ligon, K. L., Lyons, G. E., Copeland, N. G., Gilbert, D. J., Jenkins, N. A. and Olson, E. N. Scleraxis: a basic helix-loop-helix protein that prefigures skeletal formation during mouse embryogenesis 121, 1099
- Cubitt, A. B., Firtel, R. A., Fischer, G., Jaffe, L. F. and Miller, A. L. Patterns of free calcium in multicellular stages of Dictyostelium expressing jellyfish apoaequorin 121, 2291
- Cui, H. See Ekstrom, T. J.
- Cui, X. and Doe, C. Q. The role of the cell cycle and cytokinesis in regulating neuroblast sublineage gene expression in the Drosophila CNS 121, 3233
- Cui, Y., Brown, J. D., Moon, R. T. and Christian, J. L. Xwnt-8b: a maternally expressed Xenopus Wnt gene with a potential role in establishing the dorsoventral axis 121,
- Cunha, G. R. See Donjacour, A. A.
- Cunliffe, V. See O'Reilly, M.-A. J. Currie, D. A. and Bate, M. Innervation is essential for the development and differentiation of a sex-specific adult muscle in Drosophila melanogaster 121, 2549
- Curtis, D., Apfeld, J. and Lehmann, R. nanos is an evolutionarily conserved organizer of anterior-posterior polarity 121, 1899
- Curtiss, J. and Heilig, J. S. Establishment of Drosophila imaginal precursor cells is controlled by the Arrowhead gene 121, 3819 D'Agati, V. See Pevny, L.
- da Penha Berzaghi, M. See Berninger, B.
- Daifotis, A. G. See Wysolmerski, J. J.
- Dale, B. See Yazaki, I. Dale, T. See Niranjan, B.
- Dambly-Chaudiere, C. See Vervoort, M.
- Danos, M. C. and Yost, H. J. Linkage of cardiac left-right asymmetry and dorsal-anterior development in Xenopus 121, 1467
- Datta, S. Control of proliferation activation in quiescent neuroblasts of the Drosophila central nervous system 121, 1173
- Davidson, D. R. See Grindley, J. C. Davidson, E. H. See Makabe, K. W.
- Davidson, E. H. See Ransick, A.
- Davidson, E. H. See Wang, D. G.-W.
- Davidson, L. A., Koehl, M. A. R., Keller, R. and Oster, G. F. How do sea urchins invaginate? Using biomechanics to distinguish between mechanisms of primary invagination 121, 2005

- Davies, J., Lyon, M., Gallagher, J. and Garrod, D. Sulphated proteoglycan is required for collecting duct growth and branching but not nephron formation during kidney development 121, 1507
- Davison, B. L. See Ware, C. B.
- Dawid, I. B. See Appel, B.
- Dawid, I. B. See Knecht, A. K.
- Dawid, I. B. See Toyama, R.
- Day, C. D., Galgoci, B. F. C. and Irish, V. F. Genetic ablation of petal and stamen primordia to elucidate cell interactions during floral development 121, 2887
- De Robertis, E. M. See Yamada, G.
- de Celis, J. F. and Ruiz-Gomez, M. groucho and hedgehog regulate engrailed expression in the anterior compartment of the Drosophila wing 121, 3467
- de Celis, J. F., Llimargas, M. and Casanova, J. ventral veinless, the gene encoding the Cf1a transcription factor, links positional information and cell differentiation during embryonic and imaginal development in Drosophila melanogaster 121, 3405
- de Celis, J. See Jennings, B.
- de Laat, S. W. See Gutknecht, D. R.
- Dean, J. See Epifano, O.
- Dear, T. N., Colledge, W. H., Carlton, M. B. L., Lavenir, I., Larson, T., Smith, A. J. H., Warren, A. J., Evans, M. J., Sofroniew, M. V. and Rabbitts, T. H. The Hox11 gene is essential for cell survival during spleen
- development 121, 2909 Delidakis, C. See Jennings, B.
- DeLotto, R. See Smith, C. L.
- Demeret, C. See Serrano, N.
- Detrich III, H. W. See Stainier, D. Y. R.
- Deutsch, E. See Mohler, J.
- Di Laurenzio, L. See Scheres, B. Diaz-Benjumea, F. J. and Cohen, S. M. Serrate signals through Notch to establish a Winglessdependent organizer at the dorsal/ventral compartment boundary of the Drosophila wing
- 121, 4215 Diaz-Benjumea, F. J. See Ng. M.
- Dickinson, H. G. See Charlton, W. L.
- Dickinson, M. E., Selleck, M. A. J., McMahon, A. P. and Bronner-Fraser, M. Dorsalization of the neural tube by the non-neural ectoderm 121, 2099
- Dickson, C. See Mahmood, R.
- Dickson, M. C., Martin, J. S., Cousins, F. M., Kulkarni, A. B., Karlsson, S. and Akhurst,
- R. J. Defective haematopoiesis and vasculogenesis in transforming growth factor-B1 knock out mice 121, 1845
- Diederich, R. J. See Matsuno, K.
- DiNardo, S. See Boyle, M.
- Doe, C. Q. See Broadus, J.
- Doe, C. Q. See Cui, X.
- Doe, C. Q. See Spana, E. P.
- Doggett, B. See Kapur, R. P.
- Dolle, P. See Lampron, C.
- Domingo, C. and Keller, R. Induction of notochord cell intercalation behavior and differentiation by progressive signals in the gastrula of Xenopus laevis 121, 3311
- Donjacour, A. A. and Cunha, G. R. Induction of prostatic morphology and secretion in urothelium by seminal vesicle mesenchyme 121, 2199
- Donovan, P. J. See Ware, C. B.
- Donovan, P. J. See Wickramasinghe, D.
- Downs, K. M. and Gardner, R. L. An

- investigation into early placental ontogeny: allantoic attachment to the chorion is selective and developmentally regulated 121, 407
- Doyle, A. See Barnett, S. C.
- Dressler, G. R. See Ryan, G.
- Dressler, G. R. See Torres, M. Drysdale, R. See Rushton, E.
- Dubendorfer, A. See Hilfiker, A.
- Dudus, L. See Engelhardt, J. F.
- Dumont, N. See Vervoort, M.
- Dunwoodie, S. L. See Harrison, S. M.
- Duprat, A.-M. See Zaraisky, A. G.
- Duprez, D. See Hardy, A.
- Dura, J.-M. See Serrano, N. Durston, A. J. See Gutknecht, D. R.
- Eberhart, C. G. and Wasserman, S. A. The pelota locus encodes a protein required for
- meiotic cell division: an analysis of G2/M arrest in Drosophila spermatogenesis 121,
- Ecochard, V. See Zaraisky, A. G.
- Edlund, T. See Appel, B.
- Edwards, D. N. See Galindo, R. L.
- Edwards, D. R. See Harvey, M. B. Eisen, J. S. See Appel, B.
- Ekker, M. See Akimenko, M.-A.
- Ekker, S. C. See Lai, C.-J.
- Ekker, S. C., McGrew, L. L., Lai, C.-J., Lee, J. J., von Kessler, D. P., Moon, R. T. and
- Beachy, P. A. Distinct expression and shared activities of members of the hedgehog gene family of Xenopus laevis 121, 2337
- Ekstrom, T. J., Cui, H., Li, X. and Ohlsson, R. Promoter-specific IGF2 imprinting status and its plasticity during human liver development
- 121, 309 Elinson, R. P. See Holowacz, T.
- Emerson, C. P. J. See Goldhamer, D. J.
- Emery, J. F. and Bier, E. Specificity of CNS and PNS regulatory subelements comprising panneural enhancers of the deadpan and scratch genes is achieved by repression 121, 3549
- Emmons, S. W. See Chow, K. L.
- Engel, J. D. See Groves, A. K.
- Engelhardt, J. F., Schlossberg, H., Yankaskas, J. R. and Dudus, L. Progenitor cells of the adult human airway involved in submucosal
- gland development 121, 2031
- Ephrussi, A. See Markussen, F.-H. Epifano, O., Liang, L.-f., Familari, M., Moos
- Jr., M. C. and Dean, J. Coordinate expression of the three zona pellucida genes during mouse oogenesis 121, 1947
- Eppig, J. J. See Hampl, A.
- Erezyilmaz, D. F. See Kelly, G. M.
- Erickson, C. A. and Goins, T. L. Avian neural crest cells can migrate in the dorsolateral path only if they are specified as melanocytes 121, 915
- Eriksson, U. See Lee, Y. M.
- Ernst, M. K. See Wickramasinghe, D.
- Etkin, L. D. See Kloc, M.
- Eto, K. See Lee, Y. M.
- Evans, M. J. See Dear, T. N.
- Evans, R. M. See Sucov, H. M.
- Evans, S. M., Yan, W., Murillo, M. P., Ponce, J. and Papalopulu, N. tinman, a Drosophila homeobox gene required for heart and visceral mesoderm specification, may be represented by a family of genes in vertebrates: XNkx-2.3, a second vertebrate homologue of tinman 121,
- Faerman, A. See Goldhamer, D. J.
- Familari, M. See Epifano, O.

Faulkner-Jones, B. See Tan, S.-S.

Faust, C., Schumacher, A., Holdener, B. and Magnuson, T. The eed mutation disrupts anterior mesoderm production in mice 121,

Fawcett, D., Pasceri, P., Fraser, R., Colbert, M., Rossant, J. and Giguere, V. Postaxial polydactyly in forelimbs of CRABP-II mutant mice 121, 671

Fedorov, L. See Haegel, H. Feldman, D. E. See Austin, C. P.

Feldman, L. J. See Kerk, N. M.

Felsenfeld, A. L. and Kennison, J. A. Positional signaling by hedgehog in Drosophila imaginal

disc development 121. 1

Feng, L. and Heintz, N. Differentiating neurons activate transcription of the brain lipid-binding protein gene in radial glia through a novel regulatory element 121, 1719

Feng, L. See Norman, D. J.

Ferguson-Smith, A. C. See Sasaki, H.

Ferreira, J. and Carmo-Fonseca, M. The biogenesis of the coiled body during early mouse development 121, 601

Ferri, R. T. and Levitt, P. Regulation of regional differences in the differentiation of cerebral cortical neurons by EGF familymatrix interactions 121, 1151

Fesenko, I. V. See Zaraisky, A. G.

Finkelstein, R. See Royet, J.

Finn, T. P. See Heller, S.

Firtel, R. A. See Cubitt, A. B. Fischer, G. See Cubitt, A. B.

Fishell, G. Striatal precursors adopt cortical identities in response to local cues 121, 803

Fishman, M. C. See Stainier, D. Y. R. Fitzgerald, K. and Greenwald, I.

Interchangeability of Caenorhabditis elegans DSL proteins and intrinsic signalling activity of their extracellular domains in vivo 121, 4275

Flannery, M. L. See Cross, J. C. Fleming, R. J. See Gu, Y.

Fleming, T. P. See Collins, J. E.

Fletcher, J. C. and Thummel, C. S. The Drosophila E74 gene is required for the proper stage- and tissue-specific transcription of ecdysone-regulated genes at the onset of metamorphosis 121, 1411

Fletcher, J. C., Burtis, K. C., Hogness, D. S. and Thummel, C. S. The Drosophila E74 gene is required for metamorphosis and plays a role in the polytene chromosome puffing response to ecdysone 121, 1455

Fontaine-Perus, J., Jarno, V., Fournier Le Ray, C., Li, Z. and Paulin, D. Mouse chick chimera: a new model to study the in ovo developmental potentialities of mammalian somites 121, 1705

Forristall, C., Pondel, M., Chen, L. and King, M. L. Patterns of localization and cytoskeletal association of two vegetally localized RNAs, Vg I and Xcat-2 121, 201

Fournier Le Ray, C. See Fontaine-Perus, J.

Francies-West, P. H. See Hardy, A.

Francois, V. See Schmidt, J.

Frank, E. See Oakley, R. A. Franke, A. See Gorman, M.

Frasch, M. See Maggert, K.

Frasch, M., Chen, X. and Lufkin, T.

Evolutionary-conserved enhancers direct region-specific expression of the murine Hoxa-I and Hoxa-2 loci in both mice and Drosophila 121, 957

Fraser, R. See Fawcett, D.

Fraser, S. E. See Krull, C. E.

Fraser, S. E. See Miller, J. Fraser, S. E. See Shih, J.

Fraser, S. E. See Woo, K.

Fraser, S. See Birgbauer, E.

Friedlander, E. See Brower, D. L.

Friesel, R. See Robinson, M. L.

Fuhrmann, S., Kirsch, M. and Hofmann, H.-D. Ciliary neurotrophic factor promotes chick photoreceptor development in vitro 121, 2695

Fujioka, M., Jaynes, J. B. and Goto, T. Early even-skipped stripes act as morphogenetic gradients at the single cell level to establish engrailed expression 121, 4371

Fujisawa, H. See Kitsukawa, T.

Fujiwara, Y. See Schlaeger, T. M.

Futch, T. A. See Nakato, H.

Galgoci, B. F. C. See Day, C. D. Galindo, R. L., Edwards, D. N., Gillespie,

S. K. H. and Wasserman, S. A. Interaction of the pelle kinase with the membrane-associated protein tube is required for transduction of the dorsoventral signal in Drosophila embryos 121, 2209

Gallagher, J. See Davies, J.

Galliot, B., Welschof, M., Schuckert, O., Hoffmeister, S. and Schaller, H. C. The cAMP Response Element Binding protein is involved in hydra regeneration 121, 1205

Gamer, L. W. See Guz, Y. Gan, W.-B. See Becker, T.

Ganan, Y. See Sucov, H. M. Ganfornina, M. D. See Sanchez, D.

Ganfornina, M. D., Sanchez, D. and Bastiani, M. J. Lazarillo, a new GPI-linked surface lipocalin, is restricted to a subset of neurons in the grasshopper embryo 121, 123

Gannon, M. and Bader, D. Initiation of cardiac differentiation occurs in the absence of anterior endoderm 121, 2439

Gard, A. L., Burrell, M. R., Pfeiffer, S. E., Rudge, J. S. and Williams II, W. C. Astroglial control of oligodendrocyte survival mediated by PDGF and a leukemia inhibitory factor-like protein 121, 2187

Gardiner, D. M., Blumberg, B., Komine, Y. and Bryant, S. V. Regulation of HoxA expression in developing and regenerating axolotl limbs 121, 1731

Gardner, R. L. See Downs, K. M. Garner, A. S. See Oakley, R. A.

Garrod, D. R. See Collins, J. E. Garrod, D. See Davies, J.

Gaunt, S. See Muller, J.

Gavis, E. R. See Rongo, C. Gearing, D. P. See Ware, C. B.

Gehrig, B. See Stoker, A. W.

Geissen, M. See Heller, S.

Gendron-Maguire, M. See Rivera-Perez, J. A.

George, K. M. See Groves, A. K.

Gergen, P. See Tsai, C.

Gerhart, J. C. See Vodicka, M. A. Gervin, D. B. See Bradshaw, A. D.

Geyer, P. K. See Nagoshi, R. N.

Geyer, P. K. See Roseman, R. R.

Gherardi, E. See Streit, A.

Ghysen, A. See Vervoort, M.

Giangrande, A. Proneural genes influence gliogenesis in Drosophila 121, 429

Gieseler, K. See Graba, Y.

Giguere, V. See Fawcett, D.

Gilbert, D. J. See Cserjesi, P.

Gillespie, D. A. F. See Barnett, S. C.

Gillespie, S. K. H. See Galindo, R. L.

Gimlich, R. L. See Paul, D. L.

Giordano, H. See Smith, C. L. Giraldez, F. See Schimmang, T.

Glaser, G. See Wolf, C. Glasgow, E. See Appel, B.

Gliniak, B. C. See Ware, C. B.

Go, M. J. See Matsuno, K.

Godt, D. and Laski, F. A. Mechanisms of cell rearrangement and cell recruitment in Drosophila ovary morphogenesis and the requirement of brick à brac 121, 173

Goins, T. L. See Erickson, C. A.

Goldhamer, D. J., Brunk, B. P., Faerman, A., King, A., Shani, M. and Emerson, C. P. J. Embryonic activation of the myoD gene is regulated by a highly conserved distal control element 121, 637

Goldstein, B. An analysis of the response to gut induction in the C. elegans embryo 121, 1227

Gomez-Pardo, E. See Torres, M.

Gonzalez-Crespo, S. and Morata, G. Control of Drosophila adult pattern by extradenticle 121,

Gonzalez-Gaitan, M. and Jackle, H.

Invagination centers within the Drosophila stomatogastric nervous system anlage are positioned by Notch-mediated signaling which is spatially controlled through wingless 121, 2313

Good, P. J. See Knecht, A. K.

Goodenough, D. A. See Paul, D. L. Goodfellow, P. See Hacker, A.

Goodman, C. S. See Spana, E. P.

Goodman, C. S. See Therianos, S.

Gorman, M., Franke, A. and Baker, B. S. Molecular characterization of the male-specific lethal-3 gene and investigations of the regulation of dosage compensation in Drosophila 121, 463

Gorry, P. See Lampron, C.

Gossler, A. See Bettenhausen, B.

Goto, T. See Fujioka, M.

Gourdie, R. G., Mima, T., Thompson, R. P. and Mikawa, T. Terminal diversification of the myocyte lineage generates Purkinje fibers of the cardiac conduction system 121, 1423

Graba, Y., Gieseler, K., Aragnol, D., Laurenti, P., Mariol, M.-C., Berenger, H., Sagnier, T. and Pradel, J. DWnt-4, a novel Drosophila Wnt gene acts downstream of homeotic complex genes in the visceral mesoderm 121,

Grabel, L. B. See Wickramasinghe, D. Graf, T. See Bradshaw, A. D.

Grapin-Botton, A., Bonnin, M.-A., McNaughton, L. A., Krumlauf, R. and Le Douarin, N. M. Plasticity of transposed rhombomeres: Hox gene induction is

correlated with phenotypic modifications 121, 2707

Grau, E. See Monaghan, A. P. Green, P. J. See Rogge, R.

Greenland, A. J. See Charlton, W. L.

Greenstein, P. See Kelly, G. M.

Greenwald, I. See Fitzgerald, K.

Grenier, J. K. See Johnson, R. L.

Grens, A., Mason, E., Marsh, J. L. and Bode, H. R. Evolutionary conservation of a cell fate specification gene: the Hydra achaete-scute homolog has proneural activity in Drosophila 121, 4027

Gridley, T. See Rivera-Perez, J. A.

Grieshammer, U., McGrew, M. J. and

- Rosenthal, N. Role of methylation in maintenance of positionally restricted transgene expression in developing muscle 121, 2245
- Griffin, K., Patient, R. and Holder, N. Analysis of FGF function in normal and no tail zebrafish embryos reveals separate mechanisms for formation of the trunk and the tail 121, 2983
- Grimaldi, J. C. See Guimares, M. J. Grindley, J. C., Davidson, D. R. and Hill, R. E. The role of Pax-6 in eye and nasal
- development 121, 1433 Grizzle, W. E. See Robinson, M. L.
- Groves, A. K., George, K. M., Tissier-Seta, J.-P., Engel, J. D., Brunet, J.-F. and Anderson, D. J. Differential regulation of transcription factor gene expression and phenotypic markers in developing sympathetic neurons 121, 887
- Gruss, P. See Knittel, T. Gruss, P. See Oliver, G.
- Gruss, P. See Torres, M.
- Gruss, P. See Yamada, G.
- Gu, Y., Hukriede, N. A. and Fleming, R. J. Serrate expression can functionally replace Delta activity during neuroblast segregation in the Drosophila embryo 121, 855
- Guan, K.-L. See Church, D. L.
- Gubbay, J. See Norman, D. J. Guenet, J.-L. See Bettenhausen, B.
- Guerrero, I. See Guillen, I.
- Guild, G. M. See Hodgetts, R. B.
- Guillen, I., Mullor, J. L., Capdevila, J., Sanchez-Herrero, E., Morata, G. and Guerrero, I. The function of engrailed and the specification of Drosophila wing pattern 121,
- Guimares, M. J., Bazan, J. F., Zlotnik, A., Wiles, M. V., Grimaldi, J. C., Lee, F. and McClanahan, T. A new approach to the study of haematopoietic development in the yolk sac and embryoid bodies 121, 3335
- Gustavson, E. See Tabata, T. Gusterson, B. See Niranjan, B.
- Guthrie, S. See Mahmood, R.
- Gutknecht, D. R., Koster, C. H., Tertoolen, L. G. J., de Laat, S. W. and Durston, A. J. Intracellular acidification of gastrula ectoderm is important for posterior axial development in Xenopus 121, 1911
- Guz, Y., Montminy, M. R., Stein, R., Leonard, J., Gamer, L. W., Wright, C. V. E. and Teitelman, G. Expression of murine STF-1, a putative insulin gene transcription factor, in \$\beta\$ cells of pancreas, duodenal epithelium and pancreatic exocrine and endocrine progenitors during ontogeny 121, 11
- Hacker, A., Capel, B., Goodfellow, P. and Lovell-Badge, R. Expression of Sry, the mouse sex determining gene 121, 1603
- Haegel, H., Larue, L., Ohsugi, M., Fedorov, L., Herrenknecht, K. and Kemler, R. Lack of Bcatenin affects mouse development at gastrulation 121, 3529
- Haj, F. See Stoker, A. W.
- Hall, A. K. and MacPhedran, S. E. Multiple mechanisms regulate sympathetic neuronal phenotype 121, 2361
- Hall, D. H. See Chow, K. L.
- Halpern, M. E., Thisse, C., Ho, R. K., Thisse, B., Riggleman, B., Trevarrow, B., Weinberg, E. S., Postlethwait, J. H. and Kimmel, C. B. Cell-autonomous shift from

- axial to paraxial mesodermal development in zebrafish floating head mutants 121, 4257
- Halter, D. A., Urban, J., Rickert, C., Ner, S. S., Ito, K., Travers, A. A. and Technau, G. M. The homeobox gene repo is required for the differentiation and maintenance of glia function in the embryonic nervous system of Drosophila melanogaster 121, 317
- Hampl, A. and Eppig, J. J. Analysis of the mechanism(s) of metaphase I arrest in maturing mouse oocytes 121, 925
- Handyside, A. H. See Chia, C. M.
- Hantke, S. S., Carpenter, R. and Coen, E. S. Expression of floricaula in single cell layers of periclinal chimeras activates downstream homeotic genes in all layers of floral meristems
- Harada, Y., Yasuo, H. and Satoh, N. A sea urchin homologue of the chordate Brachyury (T) gene is expressed in the secondary mesenchyme founder cells 121, 2747
- Haramis, A. G., Brown, J. M. and Zeller, R. The limb deformity mutation disrupts the SHH/FGF-4 feedback loop and regulation of 5' HoxD genes during limb pattern formation 121, 4237
- Harden, N., Loh, H. Y., Chia, W. and Lim, L. A dominant inhibitory version of the small GTP-binding protein Rac disrupts cytoskeletal structures and inhibits developmental cell shape changes in Drosophila 121, 903
- Hardy, A., Richardson, M. K., Francis-West, P. H., Rodriguez, C., Izpisua-Belmonte, J.-C., Duprez, D. and Wolpert, L. Gene expression, polarising activity and skeletal patterning in reaggregated hind limb mesenchyme 121, 4329
- Harland, R. M. See Knecht, A. K.
- Harland, R. M. See Lamb, T. M. Harrison, S. M., Dunwoodie, S. L., Arkell, R. M., Lehrach, H. and Beddington, R. S. P. Isolation of novel tissue-specific genes from cDNA libraries representing the individual tissue constituents of the gastrulating mouse
- embryo 121, 2479 Hartenstein, V. See Oliver, G.
- Hartenstein, V. See Rogge, R.
- Hartenstein, V. See Tepass, U.
- Hartigan, D. J. See Shimamura, K.
- Harvey, M. B., Leco, K. J., Arcellana-Panlilio, M. Y., Zhang, X., Edwards, D. R. and Schultz, G. A. Proteinase expression in early mouse embryos is regulated by leukaemia inhibitory factor and epidermal growth factor
- 121, 1005 Hauschka, S. D. See Stern, H. M.
- Hauser, M.-T. See Scheres, B.
- Hauser, M.-T., Morikami, A. and Benfey, P. N. Conditional root expansion mutants of Arabidopsis 121, 1237
- Hayashi, K. and Ozawa, E. Myogenic cell migration from somites is induced by tissue contact with medial region of the presumptive limb mesoderm in chick embryos 121, 661
- Heberlein, U. See Chanut, F.
- Heikinheimo, M. See MacArthur, C. A.
- Heikinheimo, M. See Soudais, C.
- Heilig, J. S. See Curtiss, J.
- Heintz, N. See Feng, L.
- Heintz, N. See Norman, D. J.
- Heller, S., Finn, T. P., Huber, J., Nishi, R., Geissen, M., Puschel, A. W. and Rohrer, H. Analysis of function and expression of the chick GPA receptor (GPARa) suggests

- multiple roles in neuronal development 121,
- Hemmati-Brivanlou, A. See Cox, W. G.
- Hennighausen, L. See Robinson, G. W.
- Henry, J. Q. See Martindale, M. Q.
- Herrenknecht, K. See Haegel, H. Herrmann, B. G. See Holland, P. W. H.
- Herrup, K. and Busser, J. C. The induction of multiple cell cycle events precedes targetrelated neuronal death 121, 2385
- Herzlinger, D. See Qiao, J.
- Heuer, J. G., Li, K. and Kaufman, T. C. The Drosophila homeotic target gene centrosomin (cnn) encodes a novel centrosomal protein with leucine zippers and maps to a genomic region required for midgut morphogenesis 121,
- Hidalgo, A., Urban, J. and Brand, A. H.
- Targeted ablation of glia disrupts axon tract formation in the Drosophila CNS 121, 3703
- Hilfiker, A., Amrein, H., Dubendorfer, A., Schneiter, R. and Nothiger, R. The gene virilizer is required for female-specific splicing controlled by Sxl, the master gene for sexual development in Drosophila 121, 4017
- Hill, R. E. See Grindley, J. C.
- Hiromi, Y. See Kramer, S.
- Hirth, F. See Therianos, S.
- Ho, L. See Ataliotis, P.
- Ho, R. K. See Halpern, M. E.
- Hoch, M. See Pankratz, M. J.
- Hodgetts, R. B., Clark, W. C., O'Keefe, S. L., Schouls, M., Crossgrove, K., Guild, G. M. and von Kalm, L. Hormonal induction of
 - Dopa decarboxylase in the epidermis of Drosophila is mediated by the Broad-Complex 121, 3913
- Hoekfelt, T. See Minichiello, L.
- Hoffmann, F. M. See Staehling-Hampton, K.
- Hoffmeister, S. See Galliot, B.
- Hofmann, H.-D. See Fuhrmann, S.
- Hofstadter, F. See Moser, M.
- Hogan, B. L. M. See Jones, C. M.
- Hogness, D. S. See Fletcher, J. C.
- Holdener, B. See Faust, C
- Holder, N. See Griffin, K. Holder, N. See Macdonald, R.
- Holder, N. See Xu, Q.
- Holland, L. Z. See Holland, P. W. H.
- Holland, P. W. H., Koschorz, B., Holland, L. Z. and Herrmann, B. G. Conservation of Brachyury (T) genes in amphioxus and vertebrates: developmental and evolutionary implications 121, 4283
- Holowacz, T. and Elinson, R. P. Properties of the dorsal activity found in the vegetal cortical cytoplasm of Xenopus eggs 121, 2789
- Holstein, T. W. See Technau, U.
- Holt, C. E. See Chien, C.-B.
- Honjo, T. See Oka, C.
- Horn-Saban, S. See Rogge, R.
- Horowitz, M. C. See Ware, C. B.
- Horton, C. E. See Viviano, C. M.
- Howard, K. R. See Jaglarz, M. K.
- Hrabe de Angelis, M. See Bettenhausen, B.
- Hsieh-Li, H. M., Witte, D. P., Weinstein, M., Branford, W., Li, H., Small, K. and Potter, S. S. Hoxa 11 structure, extensive antisense transcription, and function in male and female
- fertility 121, 1373 Hsu, D. R., Chuang, P.-T. and Meyer, B. J.
- DPY-30, a nuclear protein essential early in embryogenesis for Caenorhabditis elegans dosage compensation 121, 3323

Huber, J. See Heller, S.

Hudson, A. See Waites, R.

Huet, F., Ruiz, C. and Richards, G. Sequential gene activation by ecdysone in Drosophila melanogaster: the hierarchical equivalence of early and early late genes 121, 1195

Hui, C.-C. See Millen, K. J.

Hukriede, N. A. See Gu, Y. Hunt, J. S. See Ware, C. B.

Hutter, H. and Schnabel, R. Establishment of left-right asymmetry in the Caenorhabditis elegans embryo: a multistep process involving a series of inductive events 121, 3417

Hutter, H. and Schnabel, R. Specification of anterior-posterior differences within the AB lineage in the C. elegans embryo: a polarising induction 121, 1559

Hynes, R. O. See Yang, J. T.

Ida Jr., J. A. See Austin, C. P.

Imhof, A. See Moser, M.

Ireland, G. W. See Streit, A.

Irish, V. F. See Day, C. D.

Itin, A. See Weil, M.

Ito, K. See Halter, D. A.

Ito, T. See Nogawa, H.

Itoh, K. See Sokol, S. Y.

Itoh, K., Tang, T. L., Neel, B. G. and Sokol, S. Y. Specific modulation of ectodermal cell

fates in Xenopus embryos by glycogen synthase kinase 121, 3979

Izpisua-Belmonte, J.-C. See Hardy, A. Izpisua-Belmonte, J.-C. See Sucov, H. M.

Jackle, H. See Gonzalez-Gaitan, M.

Jackle, H. See Ruden, D. M. Jacobs, A. A. See O'Rourke, N. A.

Jacobs, J. R. See Sonnenfeld, M. J.

Jaffe, L. F. See Cubitt, A. B.

Jaglarz, M. K. and Howard, K. R. The active migration of Drosophila primordial germ cells 121, 3495

Jalkanen, M. See Mitsiadis, T. A.

Jan, L. Y. See Jarman, A. P.

Jan, Y. N. See Jarman, A. P.

Janmaat, K. See Scheres, B.

Jarman, A. P., Sun, Y., Jan, L. Y. and Jan, Y. N. Role of the proneural gene, atonal, in formation of Drosophila chordotonal organs and photoreceptors 121, 2019

Jarno, V. See Fontaine-Perus, J.

Jaynes, J. B. See Fujioka, M.

Jaynes, J. B. See John, A.

Jenkins, N. A. See Cross, J. C.

Jenkins, N. A. See Cserjesi, P. Jenkins, N. A. See Oliver, G.

Jenkins, N. A. See Rosenbaum, T.

Jennings, B., de Celis, J., Delidakis, C., Preiss, A. and Bray, S. Role of Notch and achaetescute complex in the expression of Enhancer of split bHLH proteins 121, 3745

Jimenez, F. See Martin-Bermudo, M. D.

John, A., Smith, S. T. and Jaynes, J. B. Inserting the Ftz homeodomain into Engrailed creates a dominant transcriptional repressor that specifically turns off Ftz target genes in vivo 121, 1801

Johnson, R. L., Grenier, J. K. and Scott, M. P. patched overexpression alters wing disc size and pattern: transcriptional and posttranscriptional effects on hedgehog targets 121, 4161

Johnson, R. L. See Roberts, D. J.

Johnson, S. L. See Akimenko, M.-A.

Jones, C. M., Kuehn, M. R., Hogan, B. L. M., Smith, J. C. and Wright, C. V. E. Nodalrelated signals induce axial mesoderm and dorsalize mesoderm during gastrulation 121, 3651

Jones, K. T., Carroll, J., Merriman, J. A., Whittingham, D. G. and Kono, T. Repetitive sperm-induced Ca2+ transients in mouse oocytes are cell cycle dependent 121, 3259

Joyner, A. L. See Millen, K. J.

Kablar, B. See Pannese, M.

Kahane, N. See Brill, G.

Kalcheim, C. See Brill, G. Kamalati, T. See Niranjan, B.

Kapoun, A. M. and Kaufman, T. C. A functional analysis of 5' intronic and promoter regions of the homeotic gene proboscipedia in

Drosophila melanogaster 121, 2127 Kapur, R. P., Sweetser, D. A., Doggett, B., Siebert, J. R. and Palmiter, R. D. Intercellular signals downstream of endothelin receptor-B mediate colonization of the large intestine by enteric neuroblasts 121, 3787

Karess, R. See Wheatley, S.

Karlsson, S. See Dickson, M. C.

Kato, Y. and Tsunoda, Y. Germ cell nuclei of male fetal mice can support development of chimeras to midgestation following serial transplantation 121, 779

Katsuyama, Y., Wada, S., Yasugi, S. and Saiga, H. Expression of the labial group Hox gene HrHox-1 and its alteration induced by retinoic acid in development of the ascidian Halocynthia roretzi 121, 3197

Katz, F. N. See Villano, J. L.

Kaufman, T. C. See Heuer, J. G.

Kaufman, T. C. See Kapoun, A. M.

Kawaichi, M. See Oka, C

Kawakami, A. See Kitsukawa, T.

Kazanskava, O. V. See Zaraisky, A. G.

Kaznowski, C. E. See O'Rourke, N. A.

Keen, C. L. See Charlton, W. L.

Keith, K. See Nambara, E.

Keller, R. E. See Moore, S. W.

Keller, R. See Davidson, L. A.

Keller, R. See Domingo, C.

Kelley, M. W., Turner, J. K. and Reh, T. A. Ligands of steroid/thyroid receptors induce cone photoreceptors in vertebrate retina 121.

Kelly, G. M., Greenstein, P., Erezyilmaz, D. F. and Moon, R. T. Zebrafish wnt8 and wnt8b share a common activity but are involved in distinct developmental pathways 121, 1787

Kemler, R. See Haegel, H.

Kengaku, M. and Okamoto, H. bFGF as a possible morphogen for the anteroposterior axis of the central nervous system in Xenopus 121, 3121

Kennison, J. A. See Felsenfeld, A. L.

Kerk, N. M. and Feldman, L. J. A biochemical model for the initiation and maintenance of the quiescent center: implications for organization of root meristems 121, 2825

Kerridge, S. See McCormick, A.

Keshet, E. See Weil, M.

Kessel, M. See Knittel, T.

Kessler, D. S. and Melton, D. A. Induction of dorsal mesoderm by soluble, mature Vg1 protein 121, 2155

Kiefer, P. See Mahmood, R. Kilbey, A. See Barnett, S. C.

Kim, M. H. See Knittel, T.

Kimble, J. See Kuwabara, P. E. Kimelman, D. See Cornell, R. A.

Kimelman, D. See Pierce, S. B.

Kimelman, D. See Schmidt, J.

Kimmel, C. B. See Halpern, M. E.

Kimura, Y. and Yanagimachi, R. Mouse oocytes injected with testicular spermatozoa or round spermatids can develop into normal

offspring 121, 2397 King, A. See Goldhamer, D. J.

King, M. L. See Forristall, C.

Kinoshita, K. and Asashima, M. Effect of activin and lithium on isolated Xenopus animal blastomeres and response alteration at the midblastula transition 121, 1581

Kirch, S. See Liu, Z.

Kirchhamer, C. V. See Makabe, K. W. Kirchhamer, C. V. See Wang, D. G.-W.

Kirsch, M. See Fuhrmann, S.

Kitsukawa, T., Shimono, A., Kawakami, A., Kondoh, H. and Fujisawa, H.

Overexpression of a membrane protein, neuropilin, in chimeric mice causes anomalies in the cardiovascular system, nervous system and limbs 121, 4309

Klein, R. See Minichiello, L.

Klein, R. See Schimmang, T.

Klein, W. H. See Wikramanayake, A. H.

Klingensmith, J. See Sokol, S. Y.

Kloc, M. and Etkin, L. D. Two distinct pathways for the localization of RNAs at the vegetal cortex in Xenopus oocytes 121, 287

Klymkowsky, M. W. See Cary, R. B.

Knecht, A. K., Good, P. J., Dawid, I. B. and Harland, R. M. Dorsal-ventral patterning and differentiation of noggin-induced neural tissue in the absence of mesoderm 121 1927

Knittel, L. M. See Taylor, B. J.

Knittel, T., Kessel, M., Kim, M. H. and Gruss, P. A conserved enhancer of the human and murine Hoxa-7 gene specifies the anterior boundary of expression during embryonal development 121, 1077

Koblar, S. A. See Ware, C. B.

Koehl, M. A. R. See Davidson, L. A. Koehl, M. A. R. See Moore, S. W.

Koga, M. and Ohshima, Y. Mosaic analysis of the let-23 gene function in vulval induction of Caenorhabditis elegans 121, 2655

Kombrinck, K. See Rosenbaum, T.

Komine, Y. See Gardiner, D. M. Kondoh, H. See Kitsukawa, T.

Kono, T. See Jones, K. T.

Kono, T., Carroll, J., Swann, K. and Whittingham, D. G. Nuclei from fertilized mouse embryos have calcium-releasing activity 121, 1123

Kopczynski, C. See Spana, E. P.

Kopf, G. S. See Ayabe, T. Kopf, G. S. See Visconti, P. E

Kornberg, T. B. See Schwartz, C.

Kornberg, T. B. See Serrano, N.

Kornberg, T. B. See Tabata, T.

Korzh, V. See Appel, B.

Koschorz, B. See Holland, P. W. H. Koster, C. H. See Gutknecht, D. R.

Kramer, S., West, S. R. and Hiromi, Y. Cell fate control in the Drosophila retina by the orphan receptor seven-up: its role in the decisions mediated by the ras signaling pathway 121, 1361

Krasnow, R. E., Wong, L. L. and Adler, P. N. dishevelled is a component of the frizzled signaling pathway in Drosophila 121, 4095

Krinks, M. See Moos Jr, M.

Krull, C. E., Collazo, A., Fraser, S. E. and Bronner-Fraser, M. Segmental migration of trunk neural crest: time-lapse analysis reveals a role for PNA-binding molecules 121, 3733

Krumlauf, R. See Grapin-Botton, A.

Kuehn, M. R. See Jones, C. M.

Kuehn, M. R. See Toyama, R. Kuliszewski, M. See Souza, P.

Kulkarni, A. B. See Dickson, M. C.

Kulkarni, S. See Wheatley, S.

Kumar, J. P. and Ready, D. F. Rhodopsin plays an essential structural role in Drosophila photoreceptor development 121, 4359

Kuwabara, P. E. and Kimble, J. A predicted membrane protein, TRA-2A, directs hermaphrodite development in Caenorhabditis elegans 121, 2995

Kwee, L., Baldwin, H. S., Shen, H. M., Stewart, C. L., Buck, C., Buck, C. A. and Labow, M. A. Defective development of the embryonic and extraembryonic circulatory systems in vascular cell adhesion molecule (VCAM-1) deficient mice 121, 489

LaBonne, C., Burke, B. and Whitman, M. Role of MAP kinase in mesoderm induction and axial patterning during Xenopus development 121 1475

Labow, M. A. See Kwee, L. Lai, C .- J. See Ekker, S. C.

Lai, C.-J., Ekker, S. C., Beachy, P. A. and Moon, R. T. Patterning of the neural ectoderm of Xenopus laevis by the amino-terminal product of hedgehog autoproteolytic cleavage 121, 2349

Lai, Z.-C. See Treisman, J. E. Lallemand, Y. See Acampora, D.

Lam, S. See Brower, D. L.

Lamb, T. M. and Harland, R. M. Fibroblast growth factor is a direct neural inducer, which combined with noggin generates anteriorposterior neural pattern 121, 3627

Lambie, E. J. See Church, D. L.

Lampron, C., Rochette-Egly, C., Gorry, P., Dolle, P., Mark, M., Lufkin, T., LeMeur, M. and Chambon, P. Mice deficient in cellular retinoic acid binding protein II (CRABPII) or in both CRABPI and CRABPII are essentially normal 121, 539

Landolt, R. M., Vaughan, L., Winterhalter, K. H. and Zimmermann, D. R. Versican is selectively expressed in embryonic tissues that act as barriers to neural crest cell migration and axon outgrowth 121, 2303

Lang, R. A. See Chow, R. L. Lans, D. See Ramirez, F.-A.

Large, T. H. See Oakley, R. A.

Larsen, R. D. See Masteller, E. L. Larson, T. See Dear, T. N.

Larue, L. See Haegel, H.

Laski, F. A. See Godt, D. Laskowski, M. J., Williams, M. E., Nusbaum, H. C. and Sussex, I. M. Formation of lateral root meristems is a two-stage process 121,

3303 Lassar, A. B. See Munsterberg, A. E. Lassar, A. B. See Schultheiss, T. M.

Laufer, E. See Chan, D. C. Laughon, A. S. See Staehling-Hampton, K.

Laurenti, P. See Graba, Y.

Lavenir, I. See Dear, T. N. Lawrence, P. A. See Muller, J.

Lawrence, P. A., Bodmer, R. and Vincent, J.-P. Segmental patterning of heart precursors in Drosophila 121, 4303

Lawshe, A. See MacArthur, C. A. Le Douarin, N. M. See Grapin-Botton, A. Leclerc, P. See Visconti, P. E. Leco, K. J. See Harvey, M. B.

Leder, P. See Chan, D. C.

Lee, F. See Guimares, M. J.

Lee, J. J. See Ekker, S. C.

Lee, K. P. See Masteller, E. L.

Lee, T. See Murphy, A. M.

Lee, Y. M., Osumi-Yamashita, N., Ninomiya, Y., Moon, C. K., Eriksson, U. and Eto, K. Retinoic acid stage-dependently alters the migration pattern and identity of hindbrain neural crest cells 121, 825

Lefebvre, O., Regnier, C., Chenard, M.-P., Wendling, C., Chambon, P., Basset, P. and Rio, M.-C. Developmental expression of mouse stromelysin-3 mRNA 121, 947

Legouy, E. See Thompson, E. M.

Lehmann, R. See Curtis, D. Lehmann, R. See Rongo, C.

Lehner, C. F. See Weigmann, K. Lehrach, H. See Harrison, S. M.

Lehtonen, E. See Mitsiadis, T. A.

Leiden, J. M. See Soudais, C.

LeMeur, M. See Lampron, C.

Lengyel, J. A. See Margolis, J. S. Leonard, J. See Guz, Y

Leuzinger, S. See Therianos, S.

Levine, M. See Maggert, K.

Levitt, P. See Ferri, R. T.

Levitt, P. See Zhukareva, V. Li, H. See Hsieh-Li, H. M.

Li, K. See Heuer, J. G.

Li, X. See Ekstrom, T. J.

Li, Z. See Fontaine-Perus, J.

Liang, L.-f. See Epifano, O.

Liggitt, D. See Ware, C. B.

Ligon, K. L. See Cserjesi, P.

Lim, L. See Harden, N.

Lin, C .- S. See Pevny, L. Linck, R. W. See Norrander, J. M.

Lindholm, D. See Berninger, B.

Liu, Z. and Meyerowitz, E. M. LEUNIG regulates AGAMOUS expression in Arabidopsis flowers 121, 975

Liu, Z., Kirch, S. and Ambros, V. The Caenorhabditis elegans heterochronic gene pathway controls stage-specific transcription of collagen genes 121, 2471

Llimargas, M. See de Celis, J. F.

Locke, J. See Schwartz, C. Loh, H. Y. See Harden, N.

Lorimer, J. E. See Collins, J. E.

Lovatt, A. See Barnett, S. C.

Lovell-Badge, R. See Hacker, A. Lowe, J. See Masteller, E. L.

Lucchetti, S. See Baima, S.

Lufkin, T. See Frasch, M.

Lufkin, T. See Lampron, C.

Luis de la Pompa, J. See Oka, C.

Lukyanov, S. A. See Zaraisky, A. G.

Lundgren, S. E., Callahan, C. A., Thor, S. and Thomas, J. B. Control of neuronal pathway selection by the Drosophila LIM homeodomain gene apterous 121, 1769

Lynch, P. See Charlton, W. L. Lvon, M. See Davies, J.

Lyons, G. E. See Cserjesi, P.

Ma, C. and Moses, K. wingless and patched are negative regulators of the morphogenetic furrow and can affect tissue polarity in the developing Drosophila compound eye 121, 2279

Macagno, E. R. See Becker, T. MacArthur, C. A. See Soudais, C. MacArthur, C. A., Lawshe, A., Xu, J., Santos-Ocampo, S., Heikinheimo, M., Chellaiah, A. T. and Ornitz, D. M. FGF-8 isoforms activate receptor splice forms that are expressed in mesenchymal regions of mouse development 121, 3603

Macdonald, R., Barth, K. A., Xu, Q., Holder, N., Mikkola, I. and Wilson, S. W. Midline signalling is required for Pax gene regulation and patterning of the eyes 121, 3267

MacGregor, G. R., Zambrowicz, B. P. and Soriano, P. Tissue non-specific alkaline phosphatase is expressed in both embryonic and extraembryonic lineages during mouse embryogenesis but is not required for migration of primordial germ cells 121, 1487

Maciag, T. See Robinson, M. L.

MacMillan-Crow, L. A. See Robinson, M. L.

MacPhedran, S. E. See Hall, A. K.

Maden, M. See Viviano, C. M.

Maggert, K., Levine, M. and Frasch, M. The somatic-visceral subdivision of the embryonic mesoderm is initiated by dorsal gradient thresholds in Drosophila 121, 2107

Magnuson, T. See Faust, C.

Magnuson, T. See Weng, A.

Magram, J. See Schlaeger, T. M.

Mahaffey, J. W. See Mohler, J.

Mahmood, R., Kiefer, P., Guthrie, S., Dickson, C. and Mason, I. Multiple roles for FGF-3 during cranial neural development in the chicken 121, 1399

Mailhos, A. See Oliver, G. Mak, T. W. See Oka, C.

Makabe, K. W., Kirchhamer, C. V., Britten, R. J. and Davidson, E. H. Cis-regulatory control of the SM50 gene, an early marker of skeletogenic lineage specification in the sea

urchin embryo 121, 1957 Mallo, M. See Rivera-Perez, J. A

Manley, N. R. and Capecchi, M. R. The role of Hoxa-3 in mouse thymus and thyroid development 121, 1989

Manoukian, A. S., Yoffe, K. B., Wilder, E. L. and Perrimon, N. The porcupine gene is required for wingless autoregulation in Drosophila 121, 4037

Manson, L. See Wilson, V.

Mansouri, A. See Yamada, G.

Margolis, J. and Spradling, A. Identification and behavior of epithelial stem cells in the Drosophila ovary 121, 3797

Margolis, J. S., Borowsky, M. L. Steingrimsson, E., Shim, C. W., Lengyel, J. A. and Posakony, J. W. Posterior stripe expression of hunchback is driven from two promoters by a common enhancer element 121, 3067

Mariol, M.-C. See Graba, Y.

Mark, M. See Lampron, C.

Markussen, F.-H., Michon, A.-M., Breitwieser, W. and Ephrussi, A. Translational control of oskar generates Short OSK, the isoform that induces pole plasm assembly 121, 3723

Marsh, J. L. See Grens, A.

Marti, E., Takada, R., Bumcrot, D. A., Sasaki, H. and McMahon, A. P. Distribution of Sonic hedgehog peptides in the developing chick and mouse embryo 121, 2537

Martin, G. R. See Crossley, P. H. Martin, J. S. See Dickson, M. C.

Martin, P. See Strome, S.

Martin-Bermudo, M. D., Carmena, A. and Jimenez, F. Neurogenic genes control gene expression at the transcriptional level in early neurogenesis and in mesectoderm specification **121**, 219

Martindale, M. Q. and Henry, J. Q.

Modifications of cell fate specification in equal-cleaving nemertean embryos: alternate patterns of spiralian development 121, 3175

Martinez Arias, A. See Baylies, M. K. Martinez, S. See Shimamura, K.

Marty, S. See Berninger, B.

Marty, T. See Richardson, H.

Maschat, F. See Serrano, N.

Mason, E. See Grens, A.

Mason, I. See Mahmood, R.

Masteller, E. L., Larsen, R. D., Carlson, L. M., Pickel, J. M., Nickoloff, B., Lowe, J.,

Thompson, C. B. and Lee, K. P. Chicken B cells undergo discrete developmental changes in surface carbohydrate structure that appear to play a role in directing lymphocyte migration during embryogenesis 121, 1657

Matsuno, K., Diederich, R. J., Go, M. J., Blaumueller, C. M. and Artavanis-

Tsakonas, S. Deltex acts as a positive regulator of Notch signaling through interactions with the Notch ankyrin repeats **121**, 2633

Matthew, W. D. See Tuttle, R.

Maury, M. See Acampora, D.
Maves, L. and Schubiger, G. wingless induces transdetermination in developing Drosophila imaginal discs 121, 1263

Mayor, R., Morgan, R. and Sargent, M. G. Induction of the prospective neural crest of Xenopus 121, 767

Mazan, S. See Acampora, D.

McCaughern-Carucci, J. F. See Wysolmerski, J. J.

McClanahan, T. See Guimares, M. J.

McClay, D. See Miller, J.

McConnell, S. K. See O'Rourke, N. A.

McCormick, A., Core, N., Kerridge, S. and Scott, M. P. Homeotic response elements are tightly linked to tissue-specific elements in a transcriptional enhancer of the *teashirt* gene 121, 2799

McCourt, P. See Nambara, E. McDougall, A. See Roegiers, F.

McGhee, J. D. See Svendsen, P. C.

McGrew, L. L. See Ekker, S. C.

McGrew, M. J. See Grieshammer, U.

McKearin, D. and Ohlstein, B. A role for the Drosophila Bag-of-marbles protein in the differentiation of cystoblasts from germline stem cells 121, 2937

McKenna, H. J. See Ware, C. B.

McKnight, R. A. See Robinson, G. W.

McMahon, A. P. See Dickinson, M. E.

McMahon, A. P. See Marti, E.

McNagny, K. M. See Bradshaw, A. D.

McNaughton, L. A. See Grapin-Botton, A.

Melton, D. A. See Kessler, D. S.

Mercola, M. See Ataliotis, P.

Mercola, M. See Nascone, N.

Merlino, G. See Sharp, R.

Merriman, C. See Charlton, W. L.

Merriman, J. A. See Jones, K. T.

Meyer, B. J. See Hsu, D. R.

Meyerowitz, E. M. See Clark, S. E.

Meyerowitz, E. M. See Liu, Z.

Michelson, A. M. See Rushton, E.

Michon, A.-M. See Begemann, G.

Michon, A.-M. See Markussen, F.-H.

Mikawa, T. See Gourdie, R. G.

Mikkola, I. See Macdonald, R.

Millar, S. E., Miller, M. W., Stevens, M. E. and Barsh, G. S. Expression and transgenic studies of the mouse agouti gene provide insight into the mechanisms by which mammalian coat color patterns are generated 121, 3223

Millen, K. J., Hui, C.-C. and Joyner, A. L. A role for En-2 and other murine homologues of Drosophila segment polarity genes in regulating positional information in the developing cerebellum 121, 3935

Miller III, D. M. and Niemeyer, C. J. Expression of the *unc-4* homeoprotein in *Caenorhabditis elegans* motor neurons specifies presynaptic input 121, 2877

Miller, A. L. See Cubitt, A. B.

Miller, J., Fraser, S. E. and McClay, D. Dynamics of thin filopodia during sea urchin gastrulation 121, 2501

Miller, M. W. See Millar, S. E.

Miller, R. H. See Ono, K.

Mima, T. See Gourdie, R. G.

Miner, J. H. See Patapoutian, A. Minichiello, L. See Schimmang, T.

Minichiello, L., Piehl, F., Vazquez, E., Schimmang, T., Hoekfelt, T., Represa, J. and Klein, R. Differential effects of combined trk receptor mutations on dorsal root ganglion

and inner ear sensory neurons 121, 4067
Mitsiadis, T. A., Salmivirta, M., Muramatsu,
T., Muramatsu, H., Rauvala, H., Lehtonen,
E., Jalkanen, M. and Thesleff, I. Expression
of the heparin-binding cytokines, midkine
(MK) and HB-GAM (pleiotrophin) is
associated with epithelial-mesenchymal
interactions during fetal development and
organogenesis 121, 37

Mlodzik, M. See Begemann, G.

Mlodzik, M. See Rogge, R. Mlodzik, M. See Strutt, D. I.

Mohler, J., Mahaffey, J. W., Deutsch, E. and Vani, K. Control of *Drosophila* head segment identity by the bZIP homeotic gene *cnc* 121, 237

Monaghan, A. P., Grau, E., Bock, D. and Schutz, G. The mouse homolog of the orphan nuclear receptor *tailless* is expressed in the

developing forebrain 121, 839 Montell, D. J. See Murphy, A. M.

Montminy, M. R. See Guz, Y

Moon, R. T. See Cui, Y.

Moon, R. T. See Ekker, S. C.

Moon, R. T. See Kelly, G. M.

Moon, R. T. See Lai, C.-J.

Moore, G. D. See Visconti, P. E.

Moore, S. W., Keller, R. E. and Koehl,

M. A. R. The dorsal involuting marginal zone stiffens anisotropically during its convergent extension in the gastrula of Xenopus laevis

121, 3131

Moos Jr., M. C. See Epifano, O.

Moos Jr, M., Wang, S. and Krinks, M. Anti-Dorsalizing Morphogenetic Protein is a novel TGF-β homolog expressed in the Spemann organizer 121, 4293

Morata, G. See Gonzalez-Crespo, S.

Morata, G. See Guillen, I.

Morelli, G. See Baima, S.

Morgan, B. A. See Burke, A. C.

Morgan, B. A. See Roberts, D. J.

Morgan, R. See Mayor, R. Mori, C. See Oka, C.

Morikami, A. See Hauser, M.-T.

Morris, J. F. See Ryan, G.

Morriss-Kay, G. M. See Chen, W.-H.

Moscatelli, D. A. See Chow, R. L.

Moser, M., Imhof, A., Pscherer, A., Bauer, R., Amselgruber, W., Sinowatz, F., Hofstadter, F., Schule, R. and Buettner, R. Cloning and characterization of a second AP-2 transcription factor: AP-2B 121, 2779

Moses, H. L. See Serra, R.

Moses, K. See Ma, C.

Motte, P. See Zachgo, S.

Mukai, L. See Brower, D. L.

Muller, J., Gaunt, S. and Lawrence, P. A. Function of the Polycomb protein is conserved in mice and flies 121, 2847

Mullor, J. L. See Guillen, I.

Muneoka, K. See Reginelli, A. D.

Munsterberg, A. E. and Lassar, A. B.
Combinatorial signals from the neural tube,

floor plate and notochord induce myogenic bHLH gene expression in the somite 121, 651

Muramatsu, H. See Mitsiadis, T. A. Murillo, M. P. See Evans, S. M.

Murphy, A. M., Lee, T., Andrews, C. M., Shilo, B.-Z. and Montell, D. J. The Breathless FGF receptor homolog, a downstream target of *Drosophila C/EBP* in the developmental control of cell migration 121, 2255

Musci, T. J. See Cornell, R. A.

Musci, T. J. See Robbie, E. P.

Nagase, H. See Yan, L.

Nagoshi, R. N., Patton, J. S., Bae, E. and Geyer, P. K. The somatic sex determines the requirement for ovarian tumor gene activity in the proliferation of the *Drosophila* germline 121 579

Naito, S. See Nambara, E.

Nakagawa, S. and Takeichi, M. Neural crest cell-cell adhesion controlled by sequential and subpopulation-specific expression of novel cadherins 121, 1321

Nakano, T. See Oka, C.

Nakato, H., Futch, T. A. and Selleck, S. B. The division abnormally delayed (dally) gene: a putative integral membrane proteoglycan required for cell division patterning during postembryonic development of the nervous system in *Drosophila* 121, 3687

Nambara, E., Keith, K., McCourt, P. and Naito, S. A regulatory role for the *AB13* gene in the establishment of embryo maturation in *Arabidopsis thaliana* 121, 629

Narita, N. See Soudais, C.
Nascone, N. and Mercola, M. An inductive role for the endoderm in Xenopus cardiogenesis 121, 515

Nash, D. See Tiong, S. Y. K.

Neel, B. G. See Itoh, K.

Nelson, C. E. See Burke, A. C.

Nelson, C. E. See Roberts, D. J.

Ner, S. S. See Halter, D. A.

Newman, A. P., White, J. G. and Sternberg, P. W. The Caenorhabditis elegans lin-12 gene mediates induction of ventral uterine specialization by the anchor cell 121, 263

Newman-Smith, E. D. and Werb, Z. Stem cell defects in parthenogenetic peri-implantation embryos 121, 2069

Ng, M., Diaz-Benjumea, F. J. and Cohen, S. M. nubbin encodes a POU-domain protein required for proximal-distal patterning in the Drosophila wing 121, 589

Nickoloff, B. See Masteller, E. L.

Niederer, E. See Poirie, M.

Niemeyer, C. J. See Miller III, D. M. Nieto, M. A. See Sechrist, J.

Ninomiya, Y. See Lee, Y. M.

Niranjan, B., Buluwela, L., Yant, J., Perusinghe, N., Atherton, A., Phippard, D., Dale, T., Gusterson, B. and Kamaiati, T. HGF/SF: a potent cytokine for mammary growth, morphogenesis and development 121, 2897

Nishi, R. See Heller, S. Nishida, C. See Schwartz, C.

Nitabach, M. N. See Becker, T.

Nobili, F. See Baima, S.

Nogawa, H. and Ito, T. Branching morphogenesis of embryonic mouse lung epithelium in mesenchyme-free culture 121, 1015

Norman, D. J., Feng, L., Cheng, S. S., Gubbay, J., Chan, E. and Heintz, N. The lurcher gene induces apoptotic death in cerebellar Purkinje cells 121, 1183

Norrander, J. M., Linck, R. W. and Stephens, R. E. Transcriptional control of tektin A mRNA correlates with cilia development and length determination during sea urchin embryogenesis 121, 1615

Nothiger, R. See Hilfiker, A.

Nusbaum, H. C. See Laskowski, M. J.

O'Connell, M. L. See Toyama, R.

O'Connor, M. B. See Chiang, A.

O'Keefe, L. V. See Richardson, H. O'Keefe, S. L. See Hodgetts, R. B.

O'Neill, M. J. and Artzt, K. Identification of a germ-cell-specific transcriptional repressor in the promoter of Tctex-1 121, 561

O'Reilly, M.-A. J., Smith, J. C. and Cunliffe, V. Patterning of the mesoderm in Xenopus: dose-dependent and synergistic effects of Brachyury and Pintallavis 121, 1351

O'Rourke, N. A., Sullivan, D. P., Kaznowski, C. E., Jacobs, A. A. and McConnell, S. K. Tangential migration of neurons in the developing cerebral cortex 121, 2165

Oakley, R. A., Garner, A. S., Large, T. H. and Frank, E. Muscle sensory neurons require neurotrophin-3 from peripheral tissues during the period of normal cell death 121, 1341

Offenhauser, N. See Biffo, S. Ohlsson, R. See Ekstrom, T. J.

Ohlstein, B. See McKearin, D. Ohshima, Y. See Koga, M.

Ohsugi, M. See Haegel, H.

Oka, C., Nakano, T., Wakeham, A., Luis de la Pompa, J., Mori, C., Sakai, T., Okazaki, S., Kawaichi, M., Shiota, K., Mak, T. W. and Honjo, T. Disruption of the mouse RBP-JK gene results in early embryonic death 121.

Okamoto, H. See Kengaku, M. Okazaki, S. See Oka, C.

Olds-Clarke, P. See Visconti, P. E. Oliver, G., Mailhos, A., Wehr, R., Copeland, N. G., Jenkins, N. A. and Gruss, P. Six3, a murine homologue of the sine oculis gene, demarcates the most anterior border of the developing neural plate and is expressed during eye development 121, 4045

Oliver, G., Wehr, R., Jenkins, N. A., Copeland, N. G., Cheyette, B. N. R., Hartenstein, V., Zipursky, S. L. and Gruss, P. Homeobox genes and connective tissue patterning 121,

Olson, E. N. See Cserjesi, P. Ono, K., Bansal, R., Payne, J., Rutishauser, U. and Miller, R. H. Early development and dispersal of oligodendrocyte precursors in the embryonic chick spinal cord 121, 1743

Orkin, S. H. See Pevny, L.

Ornitz, D. M. See MacArthur, C. A. Oster, G. F. See Davidson, L. A.

Osumi-Yamashita, N. See Lee, Y. M.

Overbeek, P. A. See Reneker, L. W.

Overbeek, P. A. See Robinson, M. L. Ozawa, E. See Hayashi, K.

Palmer, M. A. See Chow, R. L.

Palmiter, R. D. See Kapur, R. P.

Pan, D. See Visconti, P. E.

Pankratz, M. J. and Hoch, M. Control of epithelial morphogenesis by cell signaling and integrin molecules in the Drosophila foregut 121, 1885

Pannese, M., Polo, C., Andreazzoli, M., Vignali, R., Kablar, B., Barsacchi, G. and Boncinelli, E. The Xenopus homologue of Otx2 is a maternal homeobox gene that demarcates and specifies anterior body regions 121, 707

Papaioannou, V. E. See Bhatnagar, P.

Papalopulu, N. See Evans, S. M.

Papayannopoulou, T. See Ware, C. B.

Parks, D. W. See Talbert, P. B. Paro, R. See Chiang, A.

Pasceri, P. See Fawcett, D.

Patapoutian, A., Yoon, J. K., Miner, J. H., Wang, S., Stark, K. and Wold, B. Disruption

of the mouse MRF4 gene identifies multiple waves of myogenesis in the myotome 121, 3347

Patel, K. See Reneker, L. W. Patient, R. See Griffin, K.

Patton, J. S. See Nagoshi, R. N.

Paul, D. L., Yu, K., Bruzzone, R., Gimlich, R. L. and Goodenough, D. A. Expression of a dominant negative inhibitor of intercellular communication in the early Xenopus embryo causes delamination and extrusion of cells 121,

Paulin, D. See Fontaine-Perus, J.

Paulsen, J. See Strome, S.

Paululat, A., Burchard, S. and Renkawitz-Pohl, R. Fusion from myoblasts to myotubes is dependent on the rolling stone gene (rost) of Drosophila 121, 2611

Payne, J. See Ono, K.

Peifer, M. See Rauskolb, C.

Perrimon, N. See Manoukian, A. S.

Perrimon, N. See Sokol, S. Y.

Perrimon, N. See Wilder, E. L.

Perusinghe, N. See Niranjan, B.

Peschon, J. J. See Ware, C. B.

Peterson, M. See Robbie, E. P. Pevny, L., Lin, C.-S., D'Agati, V., Simon,

M. C., Orkin, S. H. and Costantini, F. Development of hematopoietic cells lacking transcription factor GATA-1 121, 163

Pfeiffer, S. E. See Gard, A. L.

Philbrick, W. M. See Wysolmerski, J. J.

Phippard, D. See Niranjan, B. Pickel, J. M. See Masteller, E. L.

Pidsley, S. C. See Collins, J. E.

Piehl, F. See Minichiello, L. Pierce, S. B. and Kimelman, D. Regulation of

Spemann organizer formation by the intracellular kinase Xgsk-3 121, 755

Pogge v. Strandmann, E. and Ryffel, G. U. Developmental expression of the maternal protein XDCoH, the dimerization cofactor of the homeoprotein LFB1 (HNF1) 121, 1217

Poirie, M., Niederer, E. and Steinmann-

Zwicky, M. A sex-specific number of germ cells in embryonic gonads of Drosophila 121,

Pollock, G. H. See Yan, L.

Polo C. See Pannese M

Ponce, J. See Evans, S. M.

Pondel, M. See Forristall, C. Posakony, J. W. See Margolis, J. S.

Post, M. See Souza, P.

Postlethwait, J. H. See Halpern, M. E.

Potter, S. S. See Hsieh-Li, H. M. Pradel, J. See Graba, Y

Preiss, A. See Jennings, B.

Pscherer, A. See Moser, M.

Puelles, L. See Shimamura, K.

Pujol, N. See Vervoort, M.

Pultz, M. A. and Baker, B. S. The dual role of hermaphrodite in the Drosophila sex determination regulatory hierarchy 121, 99

Puschel, A. W. See Heller, S.

Oiao, J., Cohen, D. and Herzlinger, D. The metanephric blastema differentiates into collecting system and nephron epithelia in vitro 121, 3207

Qin, Y. See Schlaeger, T. M.

Quinlan, G. A., Williams, E. A., Tan, S.-S. and Tam, P. P. L. Neuroectodermal fate of epiblast cells in the distal region of the mouse egg cylinder: implication for body plan organization during early embryogenesis 121,

Rabbitts, T. H. See Dear, T. N.

Ramirez, F.-A., Wedeen, C. J., Stuart, D. K., Lans, D. and Weisblat, D. A. Identification of a neurogenic sublineage required for CNS segmentation in an Annelid 121, 2091

Randsholt, N. B. See Serrano, N

Ransick, A. and Davidson, E. H. Micromeres are required for normal vegetal plate specification in sea urchin embryos 121, 3215

Ratner, N. See Rosenbaum, T.

Rauscher III, F. J. See Ryan, G. Rauskolb, C., Smith, K. M., Peifer, M. and Wieschaus, E. extradenticle determines segmental identities throughout Drosophila

development 121, 3663

Rauvala, H. See Mitsiadis, T. A. Rayburn, H. See Yang, J. T.

Ready, D. F. See Kumar, J. P.

Reaume, A. G. See Conlon, R. A.

Reed, W. A. See Yue, C.

Reese, B. E. See Tan, S.-S.

Reginelli, A. D., Wang, Y.-Q., Sassoon, D. and Muneoka, K. Digit tip regeneration correlates with regions of Msx1 (Hox 7) expression in fetal and newborn mice 121, 1065

Regnier, C. See Lefebyre, O.

Reh, T. A. See Kelley, M. W.

Reichert, H. See Boyan, G.

Reichert, H. See Therianos, S. Renard, J.-P. See Christians, E.

Renard, J.-P. See Thompson, E. M.

Reneker, L. W., Silversides, D. W., Patel, K. and Overbeek, P. A. TGFa can act as a chemoattractant to perioptic mesenchymal

cells in developing mouse eyes 121, 1669 Renkawitz-Pohl, R. See Paululat, A.

Renshaw, B. R. See Ware, C. B.

Represa, J. See Minichiello, L.

Represa, J. See Schimmang, T. Resnick, J. L. See Wickramasinghe, D.

Richards, G. See Huet, F.

Richardson, H., O'Keefe, L. V., Marty, T. and

Saint, R. Ectopic cyclin E expression induces premature entry into S phase and disrupts pattern formation in the Drosophila eye imaginal disc 121, 3371

Richardson, M. K. See Hardy, A. Rickert, C. See Halter, D. A.

Rifkin, D. B. See Chow, R. L. Riggleman, B. See Halpern, M. E.

Rio, M.-C. See Lefebvre. O.

Rittenhouse, K. R. and Berg, C. A. Mutations in the Drosophila gene bullwinkle cause the formation of abnormal eggshell structures and bicaudal embryos 121, 3023

Rivera-Perez, J. A., Mallo, M., Gendron-Maguire, M., Gridley, T. and Behringer, R. R. goosecoid is not an essential component of the mouse gastrula organizer but is required for craniofacial and rib development 121, 3005

Robbie, E. P., Peterson, M., Amaya, E. and Musci, T. J. Temporal regulation of the Xenopus FGF receptor in development: a translation inhibitory element in the 3' untranslated region 121, 1775

Roberts, D. J., Johnson, R. L., Burke, A. C., Nelson, C. E., Morgan, B. A. and Tabin, C. Sonic hedgehog is an endodermal signal inducing Bmp-4 and Hox genes during induction and regionalization of the chick hindgut 121, 3163

Robinson, G. W., McKnight, R. A., Smith, G. H. and Hennighausen, L. Mammary epithelial cells undergo secretory differentiation in cycling virgins but require pregnancy for the establishment of terminal differentiation 121, 2079

Robinson, M. L., MacMillan-Crow, L. A., Thompson, J. A. and Overbeek, P. A. Expression of a truncated FGF receptor results in defective lens development in transgenic mice 121, 3959

Robinson, M. L., Overbeek, P. A., Verran, D. J., Grizzle, W. E., Stockard, C. R., Friesel, R., Maciag, T. and Thompson, J. A. Extracellular FGF-1 acts as a lens differentiation factor in transgenic mice 121,

Rochette-Egly, C. See Lampron, C. Rodriguez, C. See Hardy, A.

Roegiers, F., McDougall, A. and Sardet, C. The sperm entry point defines the orientation of the calcium-induced contraction wave that directs the first phase of cytoplasmic reorganization in the ascidian egg 121, 3457

Rogge, R., Green, P. J., Urano, J., Horn-Saban, S., Mlodzik, M., Shilo, B.-Z., Hartenstein, V. and Banerjee, U. The role of yan in mediating the choice between cell division and differentiation 121, 3947

Roghani, M. See Chow, R. L. Rohrer, H. See Heller, S.

Rongo, C., Gavis, E. R. and Lehmann, R. Localization of oskar RNA regulates oskar translation and requires Oskar protein 121, 2737

Root, C. E. See Brower, D. L. Rosario, M. See Barnett, S. C.

Roseman, R. R., Swan, J. M. and Geyer, P. K. A Drosophila insulator protein facilitates dosage compensation of the X chromosome mini-white gene located at autosomal insertion sites 121, 3573

Rosenbaum, T., Boissy, Y. L., Kombrinck, K., Brannan, C. I., Jenkins, N. A., Copeland, N. G. and Ratner, N. Neurofibromin-deficient fibroblasts fail to form perineurium in vitro

Rosenthal, N. See Grieshammer, U.

Rossant, J. See Conlon, R. A. Rossant, J. See Fawcett, D.

Rougvie, A. E. and Ambros, V. The heterochronic gene lin-29 encodes a zinc finger protein that controls a terminal differentiation event in Caenorhabditis elegans 121, 2491

Roux, G. D. See Chow, R. L.

Royet, J. and Finkelstein, R. Pattern formation in Drosophila head development: the role of the orthodenticle homeobox gene 121, 3561

Rubenstein, J. L. R. See Shimamura, K.

Ruberti, I. See Baima, S. Rubin, G. M. See Treisman, J. E.

Ruddle, F. H. See Shashikant, C. S.

Ruden, D. M. and Jackle, H. Mitotic delay dependent survival identifies components of cell cycle control in the Drosophila blastoderm 121, 63

Rudge, J. S. See Gard, A. L.

Ruiz, C. See Huet, F.

Ruiz-Gomez, M. See de Celis, J. F.

Rulifson, E. J. and Blair, S. S. Notch regulates wingless expression and is not required for reception of the paracrine wingless signal during wing margin neurogenesis in Drosophila 121, 2813

Running, M. P. See Clark, S. E.

Rushton, E., Drysdale, R., Abmayr, S. M., Michelson, A. M. and Bate, M. Mutations in a novel gene, myoblast city, provide evidence in support of the founder cell hypothesis for Drosophila muscle development 121, 1979

Rutishauser, U. See Ono, K. Rutishauser, U. See Yin, X. Rutter, W. J. See Cross, J. C.

Ryan, G., Steele-Perkins, V., Morris, J. F., Rauscher III, F. J. and Dressler, G. R. Repression of Pax-2 by WT1 during normal kidney development 121, 867

Ryffel, G. U. See Pogge v. Strandmann, E.

Saedler, H. See Zachgo, S.

Saffitz, J. E. See Soudais, C.

Sagnier, T. See Graba, Y.

Saiga, H. See Katsuyama, Y.

Saint, R. See Richardson, H.

Sakai, T. See Oka, C.

Salmivirta, M. See Mitsiadis, T. A.

San Jose, I. See Schimmang, T.

Sanchez, D. See Ganfornina, M. D.

Sanchez, D., Ganfornina, M. D. and Bastiani, M. J. Developmental expression of the lipocalin Lazarillo and its role in axonal pathfinding in the grasshopper embryo 121,

Sanchez-Herrero, E. See Casares, F. Sanchez-Herrero, E. See Guillen, I.

Sanes, J. R. See Yamagata, M.

Santos-Ocampo, S. See MacArthur, C. A.

Sardet, C. See Roegiers, F.

Sargent, M. G. See Mayor, R.

Sarras Jr., M. P. See Yan, L.

Sasaki, H. See Marti, E. Sasaki, H., Ferguson-Smith, A. C., Shum, A. S. W., Barton, S. C. and Surani, M. A.

Temporal and spatial regulation of H19 imprinting in normal and uniparental mouse embryos 121, 4195

Sassoon, D. See Reginelli, A. D.

Sato, S. M. See Witta, S. E. Sato, T. N. See Schlaeger, T. M.

Satoh, N. See Harada, Y.

Schaller, H. C. See Galliot, B.

Scherer, S. S., Xu, Y.-t., Bannerman, P. G. C., Sherman, D. L. and Brophy, P. J. Periaxin expression in myelinating Schwann cells: modulation by axon-glial interactions and polarized localization during development 121, 4265

Scheres, B., Di Laurenzio, L., Willemsen, V., Hauser, M.-T., Janmaat, K., Weisbeek, P. and Benfey, P. N. Mutations affecting the radial organisation of the Arabidopsis root display specific defects throughout the embryonic axis 121, 53

Schibler, U. See Schmidt, E. E.

Schierenberg, E. See Strome, S.

Schimmang, T. See Minichiello, L.

Schimmang, T., Minichiello, L., Vazquez, E., San Jose, I., Giraldez, F., Klein, R. and Represa, J. Developing inner ear sensory neurons require TrkB and TrkC receptors for innervation of their peripheral targets 121, 3381

Schlaeger, T. M., Qin, Y., Fujiwara, Y., Magram, J. and Sato, T. N. Vascular endothelial cell lineage-specific promoter in transgenic mice 121, 1089

Schlossberg, H. See Engelhardt, J. F.

Schlosshauer, B. See Stier, H.

Schmidt, E. E. and Schibler, U. High accumulation of components of the RNA polymerase II transcription machinery in rodent spermatids 121, 2373

Schmidt, J., Francois, V., Bier, E. and Kimelman, D. Drosophila short gastrulation induces an ectopic axis in Xenopus: evidence for conserved mechanisms of dorsal-ventral patterning 121, 4319

Schnabel, R. Duels without obvious sense: counteracting inductions involved in body wall muscle development in the Caenorhabditis elegans embryo 121, 2219

Schnabel, R. See Hutter, H. Schneiter, R. See Hilfiker, A.

Schouls, M. See Hodgetts, R. B.

Schroder, R. See Wolf, C.

Schubiger, G. See Baker, R.

Schubiger, G. See Maves, L.

Schuckert, O. See Galliot, B.

Schule, R. See Moser, M.

Schultheiss, T. M., Xydas, S. and Lassar, A. B. Induction of avian cardiac myogenesis by anterior endoderm 121, 4203

Schultz, G. A. See Harvey, M. B.

Schultz, M. See Yamada, G. Schultz, R. M. See Ayabe, T.

Schultz, R. M. See Worrad, D. M.

Schulz, C. and Tautz, D. Zygotic caudal regulation by hunchback and its role in abdominal segment formation of the Drosophila embryo 121, 1023

Schumacher, A. See Faust, C. Schutz, G. See Monaghan, A. P.

Schwartz, C. See Tabata, T.

Schwartz, C., Locke, J., Nishida, C. and Kornberg, T. B. Analysis of cubitus interruptus regulation in Drosophila embryos and imaginal disks 121, 1625

Schwartz, M. See Smith, C. L.

Schwarz-Sommer, Z. See Zachgo, S.

Schweisguth, F. Suppressor of Hairless is required for signal reception during lateral inhibition in the Drosophila pupal notum 121,

Scott, M. P. See Johnson, R. L.

- Scott, M. P. See McCormick, A. Sechrist, J. See Birgbauer, E.
- Sechrist, J., Nieto, M. A., Zamanian, R. T. and Bronner-Fraser, M. Regulative response of the cranial neural tube after neural fold ablation: spatiotemporal nature of neural crest regeneration and up-regulation of *Slug* 121, 4103
- Selleck, M. A. J. and Bronner-Fraser, M. Origins of the avian neural crest: the role of neural plate-epidermal interactions 121, 525
- Selleck, M. A. J. See Dickinson, M. E.
- Selleck, M. A. J. See Storey, K. G.
- Selleck, S. B. See Nakato, H.
- Serano, T. L. and Cohen, R. S. Gratuitous mRNA localization in the *Drosophila* oocyte 121, 3013
- Serano, T. L. and Cohen, R. S. A small predicted stem-loop structure mediates oocyte localization of *Drosophila K10* mRNA 121, 3800
- Serra, R. and Moses, H. L. pRb is necessary for inhibition of N-myc expression by TGF-β1 in embryonic lung organ cultures 121, 3057
- Serrano, N., Brock, H. W., Demeret, C., Dura, J.-M., Randsholt, N. B., Kornberg, T. B. and Maschat, F. polyhomeotic appears to be a target of Engrailed regulation in *Drosophila* 121. 1691
- Sessa, G. See Baima, S.
- Sessions, R. A. and Zambryski, P. C.

 Arabidopsis gynoecium structure in the wild type and ettin mutants 121, 1519
- Shani, M. See Goldhamer, D. J.
 Sharp, R., Babyatsky, M. W., Takagi, H.,
 Tagerud, S., Wang, T. C., Bockman, D. E.,
 Brand, S. J. and Merlino, G. Transforming
 growth factor α disrupts the normal program of
- Brand, S. J. and Merlino, G. Transforming growth factor α disrupts the normal program of cellular differentiation in the gastric mucosa of transgenic mice 121, 149
 Sharpe, M. J. See Streit, A.
- Shashikant, C. S., Bieberich, C. J., Belting, H.-G., Wang, J. C. H., Borbely, M. A. and Ruddle, F. H. Regulation of Hoxc-8 during mouse embryonic development: identification and characterization of critical elements involved in early neural tube expression 121, 4339
- Shen, H. M. See Kwee, L.
- Sherman, D. L. See Scherer, S. C.
- Shih, J. and Fraser, S. E. Distribution of tissue progenitors within the shield region of the zebrafish gastrula 121, 2755
- zebrafish gastrula 121, 2755 Shilo, B.-Z. See Murphy, A. M.
- Shilo, B.-Z. See Rogge, R. Shim, C. W. See Margolis, J. S.
- Shimamura, K., Hartigan, D. J., Martinez, S., Puelles, L. and Rubenstein, J. L. R. Longitudinal organization of the anterior
- neural plate and neural tube **121**, 3923 **Shimono, A.** *See* Kitsukawa, T.
- Shiota, K. See Oka, C.
- Shum, A. S. W. See Sasaki, H.
- Siebert, J. R. See Kapur, R. P.
- Silva, E. de A. See Zachgo, S.
- Silversides, D. W. See Reneker, L. W.
- Simeone, A. See Acampora, D.
- Simon, D. See Bettenhausen, B.
- Simon, J. See Chiang, A. Simon, M. C. See Pevny, L.
- Simon, M. C. See Soudais, C.
- Simon, M. C. See Soudais, C. Sinowatz, F. See Moser, M.
- Skarnes, W. C. See Wilson, V.

- Slack, J. M. W. Developmental biology of the pancreas 121, 1569
- Slack, J. M. W. See Tucker, A. S.
- Small, K. See Hsieh-Li, H. M.
- Smith, A. J. H. See Dear, T. N.
- Smith, C. L., Giordano, H., Schwartz, M. and DeLotto, R. Spatial regulation of *Drosophila* Snake protease activity in the generation of dorsal-ventral polarity 121, 4127
- Smith, G. H. See Robinson, G. W.
- Smith, J. C. See Jones, C. M.
- Smith, J. C. See O'Reilly, M.-A. J.
- Smith, K. M. See Rauskolb, C.
- Smith, S. T. See John, A.
- Sofroniew, M. V. See Dear, T. N. Sokol, S. Y. See Itoh, K.
- Sokol, S. Y., Klingensmith, J., Perrimon, N. and Itoh, K. Dorsalizing and neuralizing properties of Xdsh, a maternally expressed Xenopus homolog of dishevelled 121, 1637
- Sommer, R. See Wolf, C.
 Sonnenfeld, M. J. and Jacobs, J. R. Apoptosis of midline glia during *Drosophila* embryogenesis: a correlation with axon contact 121, 569
- Soriano, P. See MacGregor, G. R.
- Soudais, C., Bielinska, M., Heikinheimo, M., MacArthur, C. A., Narita, N., Saffitz, J. E., Simon, M. C., Leiden, J. M. and Wilson, D. B. Targeted mutagenesis of the transcription factor GATA-4 gene in mouse embryonic stem cells disrupts visceral
- endoderm differentiation in vitro 121, 3877 Souza, P., Kuliszewski, M., Wang, J., Tseu, I., Tanswell, A. K. and Post, M. PDGF-AA and its receptor influence early lung branching via an epithelial-mesenchymal interaction 121,
- Spana, E. P. and Doe, C. Q. The prospero transcription factor is asymmetrically localized to the cell cortex during neuroblast mitosis in *Drosophila* 121, 3187
- Spana, E. P., Kopczynski, C., Goodman, C. S. and Doe, C. Q. Asymmetric localization of numb autonomously determines sibling neuron identity in the *Drosophila* CNS 121, 3489
- Spradling, A. See Margolis, J.
- Staehling-Hampton, K., Laughon, A. S. and Hoffmann, F. M. A Drosophila protein related to the human zinc finger transcription factor PRDII/MBPI/HIV-EP1 is required for dpp signaling 121, 3393
- Stainier, D. Y. R., Weinstein, B. M., Detrich III, H. W., Zon, L. I. and Fishman, M. C. cloche, an early acting zebrafish gene, is required by both the endothelial and hematopoietic lineages 121, 3141
- Stark, K. See Patapoutian, A.
- Steele-Perkins, V. See Ryan, G.
- Stein, R. See Guz, Y.
- Steingrimsson, E. See Cross, J. C.
- Steingrimsson, E. See Margolis, J. S.
- Steinmann-Zwicky, M. See Poirie, M.
- Stephens, R. E. See Norrander, J. M.
- Stern, C. D. See Storey, K. G.
- Stern, C. D. See Streit, A.
- Stern, H. M., Brown, A. M. C. and Hauschka, S. D. Myogenesis in paraxial mesoderm: preferential induction by dorsal neural tube and by cells expressing Wni-1 121, 3675
- Sternberg, P. W. See Newman, A. P.
- Stevens, M. E. See Millar, S. E.
- Stewart, C. L. See Kwee, L. Stewart, R. A. See Xu, T.

- Stier, H. and Schlosshauer, B. Axonal guidance in the chicken retina 121, 1443
- Stockard, C. R. See Robinson, M. L.
- Stoker, A. W., Gehrig, B., Haj, F. and Bay, B.-H. Axonal localisation of the CAM-like tyrosine phosphatase CRΥPα: a signalling molecule of embryonic growth cones 121, 1833
- Storb, U. See Weng, A.
- Storey, K. G., Selleck, M. A. J. and Stern, C. D. Neural induction and regionalisation by different subpopulations of cells in Hensen's node 121 417
- Streit, A., Stern, C. D., Thery, C., Ireland, G. W., Aparicio, S., Sharpe, M. J. and Gherardi, E. A role for HGF/SF in neural induction and its expression in Hensen's node during gastrulation 121, 813
- Strome, S., Martin, P., Schierenberg, E. and Paulsen, J. Transformation of the germ line into muscle in mes-1 mutant embryos of Caenorhabditis elegans 121, 2961
- Struhl, G. See Zecca, M.
- Strutt, D. I. and Mlodzik, M. Ommatidial polarity in the *Drosophila* eye is determined by the direction of furrow progression and local interactions 121, 4247
- Stuart, D. K. See Ramirez, F.-A.
- Sturreyant M. A. and Bier, F. A.
- Sturtevant, M. A. and Bier, E. Analysis of the genetic hierarchy guiding wing vein development in *Drosophila* 121, 785
- Sucov, H. M., Izpisua-Belmonte, J.-C., Ganan, Y. and Evans, R. M. Mouse embryos lacking RXRα are resistant to retinoic-acid-induced limb defects 121, 3997
- Sullivan, D. P. See O'Rourke, N. A.
- Sun, Y. See Jarman, A. P.
- Surani, M. A. See Sasaki, H.
- Sussex, I. M. See Laskowski, M. J. Svendsen, P. C. and McGhee, J. D. The C. elegans neuronally expressed homeobox gene ceh-10 is closely related to genes expressed in
- the vertebrate eye 121, 1253

 Sviderskaya, E. V., Wakeling, W. F. and
 Bennett, D. C. A cloned, immortal line of
 murine melanoblasts inducible to differentiate
- to melanocytes 121, 1547 Swan, J. M. See Roseman, R. R.
- Swann, K. See Kono, T.
- Sweetser, D. A. See Kapur, R. P.
- Symes, K. See Ataliotis, P.
- Tabata, T., Schwartz, C., Gustavson, E., Ali, Z. and Kornberg, T. B. Creating a *Drosophila* wing de novo, the role of *engrailed*, and the compartment border hypothesis 121, 3359
- Tabin, C. See Burke, A. C.
- Tabin, C. See Chan, D. C.
- Tabin, C. See Roberts, D. J.
- Tagerud, S. See Sharp, R.
- Tajbakhsh, S. and Buckingham, M. E. Lineage restriction of the myogenic conversion factor myf-5 in the brain 121, 4077
- Takada, R. See Marti, E.
- Takagi, H. See Sharp, R.
- Takeichi, M. See Nakagawa, S.
- Talbert, P. B., Adler, H. T., Parks, D. W. and Comai, L. The REVOLUTA gene is necessary for apical meristem development and for limiting cell divisions in the leaves and stems of Arabidopsis thaliana 121. 2723
- Tam, P. P. L. See Quinlan, G. A.
- Tam, P. P. L. See Trainor, P. A.
- Tan, S.-S. See Quinlan, G. A.

Tan, S.-S., Faulkner-Jones, B., Breen, S. J., Walsh, M., Bertram, J. F. and Reese, B. E. Cell dispersion patterns in different cortical regions studied with an X-inactivated transgenic marker 121, 1029

Tang, T. L. See Itoh, K. Tanswell, A. K. See Souza, P. Tautz, D. See Schulz, C.

Tautz, D. See Wolf, C. Taylor, B. J. and Knittel, L. M. Sex-specific differentiation of a male-specific abdominal muscle, the Muscle of Lawrence, is abnormal in hydroxyurea-treated and in fruitless male flies 121, 3079

Technau, G. M. See Halter, D. A. Technau, U. and Holstein, T. W. Head formation in Hydra is different at apical and basal levels 121, 1273

Teitelman, G. See Guz, Y.

Tepass, U. and Hartenstein, V. Neurogenic and proneural genes control cell fate specification in the Drosophila endoderm 121, 393

Tertoolen, L. G. J. See Gutknecht, D. R. Tessarollo, L. See Wickramasinghe, D.

Therianos, S. See Boyan, G.

Therianos, S., Leuzinger, S., Hirth, F., Goodman, C. S. and Reichert, H. Embryonic development of the Drosophila brain: formation of commissural and descending pathways 121, 3849

Thery, C. See Streit, A. Thesleff, I. See Mitsiadis, T. A. Thisse, B. See Halpern, M. E. Thisse, C. See Halpern, M. E.

Thoenen, H. See Berninger, B. Thoma, B. See Ware, C. B.

Thomas, J. B. See Lundgren, S. E. Thompson, J. A. See Robinson, M. L.

Thompson, C. B. See Masteller, E. L. Thompson, E. M. See Christians, E.

Thompson, E. M., Legouy, E., Christians, E. and Renard, J.-P. Progressive maturation of chromatin structure regulates HSP70.1 gene expression in the preimplantation mouse embryo 121, 3425

Thompson, J. A. See Robinson, M. L. Thompson, R. P. See Gourdie, R. G. Thor, S. See Appel, B.

Thor, S. See Lundgren, S. E.

Thummel, C. S. See Andres, A. J. Thummel, C. S. See Fletcher, J. C.

Tiong, S. Y. K., Nash, D. and Bender, W. Dorsal wing, a locus that affects dorsoventral wing patterning in Drosophila 121, 1649

Tissier-Seta, J.-P. See Groves, A. K. Tomlinson, A. See Campbell, G. Tomlinson, A. See Wehrli, M. Torres, M. See Yamada, G.

Torres, M., Gomez-Pardo, E., Dressler, G. R. and Gruss, P. Pax-2 controls multiple steps of urogenital development 121, 4057

Tosti, E. See Yazaki, I.

Toyama, R., O'Connell, M. L., Wright, C. V. E., Kuehn, M. R. and Dawid, I. B. Nodal induces ectopic goosecoid and lim1 expression and axis dupliction in zebrafish 121, 383

Trainor, P. A. and Tam, P. P. L. Cranial paraxial mesoderm and neural crest cells of the mouse embryo: co-distribution in the craniofacial mesenchyme but distinct segregation in branchial arches 121, 2569

Travers, A. A. See Halter, D. A. Treisman, J. E. and Rubin, G. M. wingless

inhibits morphogenetic furrow movement in the Drosophila eye disc 121, 3519

Treisman, J. E., Lai, Z.-C. and Rubin, G. M. shortsighted acts in the decapentaplegic pathway in Drosophila eye development and has homology to a mouse TGF-β-responsive gene 121, 2835

Trevarrow, B. See Halpern, M. E.

Trobner, W. See Zachgo, S.
Tsai, C. and Gergen, P. Pair-rule expression of the Drosophila fushi tarazu gene: a nuclear receptor response element mediates the opposing regulatory effects of runt and hairy 121 453

Tseu, I. See Souza, P. Tsunoda, Y. See Kato, Y.

Tucker, A. S. and Slack, J. M. W. The Xenopus laevis tail-forming region 121, 249

Turner, B. M. See Worrad, D. M. Turner, J. K. See Kelley, M. W.

Tuttle, R. and Matthew, W. D. Neurotrophins affect the pattern of DRG neurite growth in a bioassay that presents a choice of CNS and PNS substrates 121, 1301

Urano, J. See Rogge, R. Urban, J. See Halter, D. A. Urban, J. See Hidalgo, A. Vani, K. See Mohler, J. Vaughan, L. See Landolt, R. M. Vazquez, E. See Minichiello, L.

Vazquez, E. See Schimmang, T.

Verran, D. J. See Robinson, M. L. Vervoort, M., Zink, D., Pujol, N., Victoir, K., Dumont, N., Ghysen, A. and Dambly-Chaudiere, C. Genetic determinants of sense

organ identity in Drosophila: regulatory interactions between cut and poxn 121, 3111

Victoir, K. See Vervoort, M. Vignali, R. See Pannese, M.

Villano, J. L. and Katz, F. N. four-jointed is required for intermediate growth in the proximal-distal axis in Drosophila 121, 2767 Vincent, J.-P. See Lawrence, P. A.

Visconti, P. E., Bailey, J. L., Moore, G. D., Pan, D., Olds-Clarke, P. and Kopf, G. S. Capacitation of mouse spermatozoa. I. Correlation between the capacitation state and protein tyrosine phosphorylation 121, 1129

Visconti, P. E., Moore, G. D., Bailey, J. L., Leclerc, P., Connors, S. A., Pan, D., Olds-Clarke, P. and Kopf, G. S. Capacitation of mouse spermatozoa. II. Protein tyrosine phosphorylation and capacitation are regulated by a cAMP-dependent pathway 121, 1139

Viviano, C. M., Horton, C. E., Maden, M. and Brockes, J. P. Synthesis and release of 9-cis retinoic acid by the urodele wound epidermis

Vodicka, M. A. and Gerhart, J. C. Blastomere derivation and domains of gene expression in the Spemann Organizer of Xenopus laevis 121,

von Kalm, L. See Hodgetts, R. B. von Kessler, D. P. See Ekker, S. C. von Schack, D. See Brill, G.

Voorn, L. v.d. See Begemann, G. Wada, S. See Katsuyama, Y.

Waites, R. and Hudson, A. phantastica: a gene required for dorsoventrality of leaves in Antirrhinum majus 121, 2143

Wakeham, A. See Oka, C. Wakeling, W. F. See Sviderskaya, E. V.

Walsh, M. See Tan, S.-S.

Wang, D. G.-W., Kirchhamer, C. V., Britten,

R. J. and Davidson, E. H. SpZ12-1, a negative regulator required for spatial control of the territory-specific Cyllla gene in the sea urchin embryo 121, 1111

Wang, J. C. H. See Shashikant, C. S.

Wang, J. See Souza, P.

Wang, S. See Moos Jr., M.

Wang, S. See Patapoutian, A. Wang, T. C. See Sharp, R.

Wang, W. See Xu, T.

Wang, Y .- Q. See Reginelli, A. D.

Ware, C. B., Horowitz, M. C., Renshaw, B. R., Hunt, J. S., Liggitt, D., Koblar, S. A., Gliniak, B. C., McKenna, H. J., Papayannopoulou, T., Thoma, B., Cheng, L., Donovan, P. J., Peschon, J. J., Bartlett, P. F., Willis, C. R., Wright, B. D., Carpenter, M. K., Davison, B. L. and Gearing, D. P. Targeted disruption of the lowaffinity leukemia inhibitory factor receptor gene causes placental, skeletal, neural and metabolic defects and results in perinatal death

121, 1283 Warren, A. J. See Dear, T. N. Wasserman, S. A. See Eberhart, C. G. Wasserman, S. A. See Galindo, R. L.

Watanabe, M. See Yin, X.

Weaver, T. A. and White, R. A. H. headcase, an imaginal specific gene required for adult morphogenesis in Drosophila melanogaster 121, 4149

Wedeen, C. J. See Ramirez, F.-A.

Wehr, R. See Oliver, G.

Wehrle-Haller, B. and Weston, J. A. Soluble and cell-bound forms of steel factor activity play distinct roles in melanocyte precursor dispersal and survival on the lateral neural crest migration pathway 121, 731

Wehrli, M. and Tomlinson, A. Epithelial planar polarity in the developing Drosophila eye 121, 2451

Wehrli, M. See Brower, D. L.

Weigmann, K. and Lehner, C. F. Cell fate specification by even-skipped expression in the Drosophila nervous system is coupled to cell cycle progression 121, 3713

Weil, M., Itin, A. and Keshet, E. A role for mesenchyme-derived tachykinins in tooth and mammary gland morphogenesis 121, 2419

Weinberg, E. S. See Halpern, M. E. Weinstein, B. M. See Stainier, D. Y. R. Weinstein, M. See Hsieh-Li, H. M. Weisbeek, P. See Scheres, B. Weisblat, D. A. See Ramirez, F.-A.

Welschof, M. See Galliot, B.

Wendling, C. See Lefebvre, O.

Weng, A., Magnuson, T. and Storb, U. Strainspecific transgene methylation occurs early in mouse development and can be recapitulated in embryonic stem cells 121, 2853

Wepf, R. See Begemann, G. Werb, Z. See Behrendtsen, O.

Werb, Z. See Cross, J. C.

Werb, Z. See Newman-Smith, E. D.

West, S. R. See Kramer, S. Westerfield, M. See Akimenko, M.-A.

Weston, J. A. See Wehrle-Haller, B. Wheatley, S., Kulkarni, S. and Karess, R.

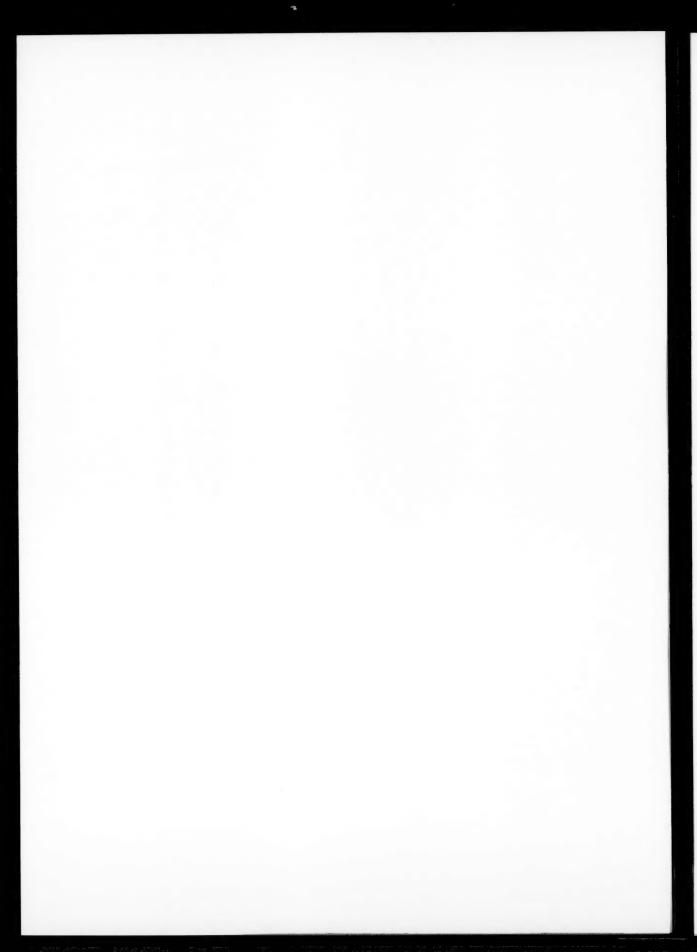
Drosophila nonmuscle myosin II is required for rapid cytoplasmic transport during oogenesis and for axial nuclear migration in early embryos 121, 1937

White, J. G. See Newman, A. P. White, K. L. See Yue, C.

- White, R. A. H. See Weaver, T. A. Whitman, M. See LaBonne, C.
- Whittingham, D. G. See Jones, K. T.
- Whittingham, D. G. See Kono, T.
- Wickramasinghe, D., Becker, S., Ernst, M. K., Resnick, J. L., Centanni, J. M., Tessarollo, L., Grabel, L. B. and Donovan, P. J. Two CDC25 homologues are differentially expressed during mouse development 121, 2047
- Wieschaus, E. See Rauskolb, C.
- Wikramanayake, A. H., Brandhorst, B. P. and Klein, W. H. Autonomous and nonautonomous differentiation of ectoderm in different sea urchin species 121, 1497
- Wilder, E. L. and Perrimon, N. Dual functions of wingless in the Drosophila leg imaginal disc 121 477
- Wilder, E. L. See Manoukian, A. S.
- Wiles, M. V. See Guimares, M. J.
- Wilkinson, D. G. See Xu, Q.
- Willemsen, V. See Scheres, B.
- Williams II, W. C. See Gard, A. L.
- Williams, E. A. See Quinlan, G. A.
- Williams, J. L. D. See Boyan, G. Williams, M. E. See Laskowski, M. J.
- Williams, M. E. See Laskowski, Willis, C. R. See Ware, C. B.
- Wilson, D. B. See Soudais, C.
- Wilson, S. W. See Barth, K. A.
- Wilson, S. W. See Macdonald, R. Wilson, S. W. See Macdonald, R.
- Wilson, V., Manson, L., Skarnes, W. C. and Beddington, R. S. P. The *T* gene is necessary for normal mesodermal morphogenetic cell movements during gastrulation 121, 877
- Winston, R. M. L. See Chia, C. M.
- Winterhalter, K. H. See Landolt, R. M.
- Witta, S. E., Agarwal, V. R. and Sato, S. M. XIPOU 2, a noggin-inducible gene, has direct neuralizing activity 121, 721
- Witte, D. P. See Hsieh-Li, H. M.
- Wold, B. See Patapoutian, A.
- Wolff, C., Sommer, R., Schroder, R., Glaser, G. and Tautz, D. Conserved and divergent expression aspects of the *Drosophila* segmentation gene *hunchback* in the short germ band embryo of the flour beetle *Tribolium* 121, 4227
- Wolpert, L. See Hardy, A.
- Wong, L. L. See Krasnow, R. E.
- Woo, K. and Fraser, S. E. Order and coherence in the fate map of the zebrafish nervous system 121, 2595
- Worrad, D. M., Turner, B. M. and Schultz, R. M. Temporally restricted spatial localization of acetylated isoforms of histone

- H4 and RNA polymerase II in the 2-cell mouse embryo 121, 2949
- Wright, B. D. See Ware, C. B.
- Wright, C. V. E. See Guz, Y.
- Wright, C. V. E. See Jones, C. M.
- Wright, C. V. E. See Toyama, R. Wynshaw-Boris, A. See Chan, D. C.
- Wysolmerski, J. J., McCaughern-Carucci,
- J. F., Daifotis, A. G., Broadus, A. E. and Philbrick, W. M. Overexpression of parathyroid hormone-related protein or parathyroid hormone in transgenic mice impairs branching morphogenesis during
- mammary gland development 121, 3539 Xu, J. See MacArthur, C. A.
- Xu, Q. See Macdonald, R.
- Xu, Q., Alldus, G., Holder, N. and Wilkinson, D. G. Expression of truncated Sek-1
- receptor tyrosine kinase disrupts the segmental restriction of gene expression in the *Xenopus* and zebrafish hindbrain **121**, 4005
- Xu, T., Wang, W., Zhang, S., Stewart, R. A. and Yu, W. Identifying tumor suppressors in genetic mosaics: the *Drosophila lats* gene encodes a putative protein kinase 121, 1053
- Xu, Y-t. See Scherer, S. C.
- Xydas, S. See Schultheiss, T. M.
- Yamada, G., Mansouri, A., Torres, M., Stuart, E. T., Blum, M., Schultz, M., De Robertis, E. M. and Gruss, P. Targeted mutation of the murine *goosecoid* gene results in craniofacial defects and neonatal death 121. 2917
- Yamagata, M. and Sanes, J. R. Lamina-specific cues guide outgrowth and arborization of retinal axons in the optic tectum 121, 189
- Yamagata, M. and Sanes, J. R. Targetindependent diversification and target-specific projection of chemically defined retinal ganglion cell subsets 121, 3763
- Yan, L., Pollock, G. H., Nagase, H. and Sarras Jr., M. P. A 25.7×10³ M_r hydra metalloproteinase (HMP1), a member of the astacin family, localizes to the extracellular matrix of Hydra vulgaris in a head-specific manner and has a developmental function 121,
- Yan, W. See Evans, S. M.
- Yanagimachi, R. See Kimura, Y.
- Yang, J. T., Rayburn, H., and Hynes, R. O. Cell adhesion events mediated by α4 integrins
- are essential in placental and cardiac development 121, 549
- Yankaskas J. R. See Engelhardt, J. F.
- Yant, J. See Niranjan, B.
- Yasugi, S. See Katsuyama, Y.

- Yasuo, H. See Harada, Y.
- Yazaki, I., Tosti, E. and Dale, B. Cytoskeletal elements link calcium channel activity and the cell cycle in early sea urchin embryos 121, 1827
- Yin, X., Watanabe, M. and Rutishauser, U. Effect of polysialic acid on the behavior of retinal ganglion cell axons during growth into the optic tract and tectum 121. 3439
- Yoffe, K. B. See Manoukian, A. S.
- Yoon, J. K. See Patapoutian, A.
- Yost, H. J. See Danos, M. C.
- Young, K. E. See Chiang, C.
- Yu, K. See Paul, D. L.
- Yu, W. See Xu, T.
- Yue, C., White, K. L., Reed, W. A. and Bunch, T. D. The existence of inositol 1,4,5trisphosphate and ryangdine recentors in
- trisphosphate and ryanodine receptors in mature bovine oocytes 121, 2645 Zachgo, S., Silva, E. de A., Motte, P., Trobner,
- W., Saedler, H. and Schwarz-Sommer, Z. Functional analysis of the Antirrhinum floral homeotic DEFICIENS gene in vivo and in vitro by using a temperature-sensitive mutant
- 121, 2861 Zafra, F. See Berninger, B.
- Zamanian, R. T. See Sechrist, J.
- Zambrowicz, B. P. See MacGregor, G. R.
- Zambryski, P. C. See Sessions, R. A.
- Zaraisky, A. G., Ecochard, V., Kazanskaya, O. V., Lukyanov, S. A., Fesenko, I. V. and Duprat, A.-M. The homeobox-containing
- gene XANF-1 may control development of the Spemann organizer 121, 3839 Zecca, M., Basler, K. and Struhl, G. Sequential
- Zecca, M., Basler, K. and Struhl, G. Sequential organizing activities of engrailed, hedgehog and decapentaplegic in the *Drosophila* wing 121, 2265
- Zeller, R. See Haramis, A. G.
- Zhang, J. See Zheng, L.
- Zhang, S. See Xu, T.
- Zhang, X. See Harvey, M. B.
- Zheng, L., Zhang, J. and Carthew, R. W. frizzled regulates mirror-symmetric pattern formation in the *Drosophila* eye 121, 3045
- Zhukareva, V. and Levitt, P. The limbic system-associated membrane protein (LAMP) selectively mediates interactions with specific
- central neuron populations 121, 1161 Zimmermann, D. R. See Landolt, R. M.
- Zink, D. See Vervoort, M.
- Zipursky, S. L. See Oliver, G.
- Zlotnik, A. See Guimares, M. J.
- Zon, L. I. See Stainier, D. Y. R.
- Zusman, S. See Brower, D. L.



Subject Index

abdominal A

gonadal precursor cells in *Drosophila*: BOYLE AND DINARDO 121, 1815.

Abdominal B

gonadal precursor cells in *Drosophila*: BOYLE AND DINARDO 121, 1815.

Abdominal gap gene

caudal regulation and function: SCHULZ AND TAUTZ 121, 1023.

Abdominal histoblasts

role of *Awh* in imaginal development: CURTISS AND HEILIG **121**, 3819.

ABIS

late embryo development in Arabidopsis: NAMBARA, KEITH, MCCOURT AND NAITO 121, 629.

Ablation

genetic ablation of petal and stamen primordia: DAY, GALGOCI AND IRISH 121, 2887.

Abnormal morphogenesis

chimeric mice with excess neuropilin: KITSUKAWA, SHIMONO, KAWAKAMI, KONDOH AND FUJISAWA 121, 4309.

Acetylcholine receptors

development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763.

achaete-scute complex

cell type specification in the *Drosophila* endoderm: TEPASS AND HARTENSTEIN 121, 393.

hydra achaete-scute homolog: GRENS, MASON, MARSH AND BODE 121, 4027. regulation of gene expression in the CNS: CUI

AND DOE 121, 3233. requirements for *E(spl)bHLH* expression: JENNINGS, DE CELIS, DELIDAKIS, PREISS AND BRAY 121, 3745.

role of proneural genes in *Drosophila*: GIANGRANDE **121**, 429.

Achlorhydria

TGFα alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI. TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

Acidic FGF

branching of mesenchyme-free lung epithelium: NOGAWA AND ITO 121, 1015

Acinar cells

developmental biology of the pancreas: SLACK 121, 1569.

Activation

nuclear Ca²⁺-releasing activity in embryos: KONO, CARROLL, SWANN AND WHITTINGHAM **121**, 1123.

Serrate activates Notch: GU, HUKRIEDE AND FLEMING 121, 855.

Active repression

an active repressor mimics a ftz mutant: JOHN, SMITH AND JAYNES 121, 1801.

Activin

alteration of mesoderm formation at MBT: KINOSHITA AND ASASHIMA 121, 1581. MAP kinase in *Xenopus* mesoderm induction and axial patterning: LABONNE, BURKE AND WHITMAN 121, 1475.

mesoderm induction by soluble Vg1: KESSLER AND MELTON 121, 2155. mesoderm patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429.

Actomyosin-based contraction

fertilization and egg cytoplasmic reorganisation: ROEGIERS, MCDOUGALL AND SARDET 121, 3457.

Adhesion

early placental development in mouse embryos: DOWNS AND GARDNER 121, 407.

ADMP

anti-dorsalizing morphogenetic protein: MOOS JR., WANG AND KRINKS 121, 4293.

Adult morphogenesis

in *Drosophila*: WEAVER AND WHITE **121**, 4149.

Aequori

patterns of free calcium in *Dictyostelium*: CUBITT, FIRTEL, FISCHER, JAFFE AND MILLER 121, 2291.

Afferent

peripheral projections and central neurogenesis: BECKER, BERLINER, NITABACH, GAN AND MACAGNO 121, 250

agouti

embryonic expression of agouti: MILLAR, MILLER, STEVENS AND BARSH 121, 3223.

AIGF

Fgf8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439.

Airwa

submucosal gland development and morphogenesis: ENGELHARDT, SCHLOSSBERG AND YANKASKAS AND DUDUS 121, 2031.

Alkaline phosphatase

and PGCs: MACGREGOR, ZAMBROWICZ AND SORIANO 121, 1487.

Allantois

early placental development in mouse embryos: DOWNS AND GARDNER 121,

Alternative splicing

FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

truncated trkB in the developing chick: BIFFO, OFFENHAUSER, CARTER AND BARDE 121, 2461.

Alveolar cells

differentiation of mammary alveolar cells: ROBINSON, MCKNIGHT, SMITH AND HENNIGHAUSEN 121, 2079.

Amphibian

RA in regenerating limb blastema: VIVIANO, HORTON, MADEN AND BROCKES 121, 3753

Amphioxus

Brachyury genes: HOLLAND, KOSCHORZ, HOLLAND AND HERRMANN 121, 4283.

Amylas

developmental biology of the pancreas: SLACK 121, 1569.

Amylin

developmental biology of the pancreas: SLACK 121, 1569.

ana

activation of neuroblast proliferation: DATTA 121, 1173.

Anchor cell

uterine fate induction in *Caenorhabditis*: NEWMAN, WHITE AND STERNBERG 121, 263.

Androgenetic

H19 imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121, 4195.

Androgens

prostatic induction by seminal vesicle: DONJACOUR AND CUNHA 121, 2199.

Angioblas

endothelial specific promoter: SCHLAEGER, QIN, FUJIWARA, MAGRAM AND SATO 121, 1089.

Animal cap

ectoderm differentiation in sea urchins:
WIKRAMANAYAKE, BRANDHORST
AND KLEIN 121, 1497.

Annelid

neurogenic sublineage required for CNS segmentation in Annelids: RAMIREZ, WEDEEN, STUART, LANS AND WEISBLAT 121, 2091.

Antennapedia

homeotic regulation of *cnn*: HEUER, LI AND KAUFMAN **121**, 3861.

tsh regulation by homeotic genes: MCCORMICK, CORE, KERRIDGE AND SCOTT 121, 2799.

Anterior expression boundary

of Hoxa-7: KNITTEL, KESSEL, KIM AND GRUSS 121, 1077.

Anterior neural plate

mouse eye homeobox gene: OLIVER, MAILHOS, WEHR, COPELAND, JENKINS AND GRUSS 121, 4045.

Anterior neuroectoderm

Otx2 and neuroectoderm specification: ACAMPORA, MAZAN, LALLEMAND, AVANTAGGIATO, MAURY, SIMEONE AND BRULET 121, 3279.

Anterior region

Xotx2 and the fate of anterior regions: PANNESE, POLO, ANDREAZZOLI, VIGNALI, KABLAR, BARSACCHI AND BONCINELLI 121, 707.

Anterior specification

induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

Anteroposterior patterning

a polarising induction: HUTTER AND SCHNABEL 121, 1559.

evolutionary conservation of nanos: CURTIS, APFELD AND LEHMANN 121, 1899.

FGF signalling in *Xenopus*: KENGAKU AND OKAMOTO 121, 3121.

Hox genes and vertebral transposition: BURKE, NELSON, MORGAN AND TABIN 121, 333.

ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161.

role of FGF activity in axis formation: GRIFFIN, PATIENT AND HOLDER 121, 2983.

Antirrhinum

chimeras show non-autonomy of *floricaula*: CARPENTER AND COEN 121, 19. control of dorsoventrality in leaves: WAITES AND HUDSON 121, 2143.

floricaula in single cell layers activates

downstream genes: HANTKE, CARPENTER AND COEN 121, 27.

in vivo and in vitro functions of the DEFICIENS gene: ZACHGO, SILVA, MOTTE, TROBNER, SAEDLER AND SCHWARZ-SOMMER 121, 2861.

Antisense RNA

GPA receptor function and expression: HELLER, FINN, HUBER, NISHI, GEISSEN, PUSCHEL AND ROHRER 121, 2681

Antisense transcripts

Hoxa 11 structure, expression and function in fertility: HSIEH-LI, WITTE, WEINSTEIN, BRANFORD, LI, SMALL AND POTTER 121 1373

aop

yan function in division versus differentiation: ROGGE, GREEN, URANO, HORN-SABAN, MLODZIK, SHILO, HARTENSTEIN AND BANERJEE 121, 3047.

AP-1

analysis of DNA-binding proteins in O-2A differentiation: BARNETT, ROSARIO, DOYLE, KILBEY, LOVATT AND GILLESPIE 121, 3969.

AP-2

molecular cloning of AP-2: MOSER, IMHOF, PSCHERER, BAUER, AMSELGRUBER, SINOWATZ, HOFSTADTER, SCHULE AND BUETTNER 121, 2779.

Apical constriction

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005

Apical ectodermal ridge

development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA-BELMONTE, DUPREZ AND WOLPERT 121, 4329.

Ist^D limbs contain ectopic ZPA: CHAN, LAUFER, TABIN AND LEDER 121, 1971. relation of formins to AER and ZPA: CHAN, WYNSHAW-BORIS AND LEDER 121.

3151. Apicobasal contraction

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

Apoptosis

apoptotic death in lurcher Purkinje cells: NORMAN, FENG, CHENG, GUBBAY, CHAN AND HEINTZ 121, 1183.

asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS, SOFRONIEW AND RABBITTS 121, 2909.

FGF in lens development: CHOW, ROUX, ROGHANI, PALMER, RIFKIN, MOSCATELLI AND LANG 121, 4383.

midline glial cell death: SONNENFELD AND JACOBS 121, 569.

TGFα alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

apterous

and neuronal pathfinding: LUNDGREN, CALLAHAN, THOR AND THOMAS 121, 1769.

Arabidopsis

Athb-8 expression in procambial cells:

BAIMA, NOBILI, SESSA, LUCCHETTI, RUBERTI AND MORELLI 121, 4171.

CLV3 regulates meristem development: CLARK, RUNNING AND MEYEROWITZ 121, 2057.

conditional root expansion mutants: HAUSER, MORIKAMI AND BENFEY 121, 1237.

genetic ablation of petal and stamen primordia: DAY, GALGOCI AND IRISH 121, 2887.

gynoecium structure: SESSIONS AND ZAMBRYSKI 121, 1519.

late embryo development in *Arabidopsis*: NAMBARA, KEITH, MCCOURT AND NAITO **121**, 629.

LEUNIG regulates AGAMOUS expression: LIU AND MEYEROWITZ 121, 975.

meristem development in Arabidopsis: TALBERT, ADLER, PARKS AND COMAI 121, 2723.

meristem development in lateral roots: LASKOWSKI, WILLIAMS, NUSBAUM AND SUSSEX 121, 3303.

radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

Ascidian

ascidian labial group Hox gene: KATSUYAMA, WADA, YASUGI AND SAIGA 121, 3197.

fertilization and egg cytoplasmic reorganisation: ROEGIERS, MCDOUGALL AND SARDET 121, 3457.

Ascorbic acid

maintenance of the quiescent center: KERK AND FELDMAN 121, 2825.

Asplenia

asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS, SOFRONIEW AND RABBITTS 121, 2909.

Astacin

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

Astrocyte

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

LIFR mutation results in perinatal death: WARE, HOROWITZ, RENSHAW, HUNT, LIGGITT, KOBLAR, GLINIAK, MCKENNA, PAPAYANNOPOULOU, THOMA, CHENG, DONOVAN, PESCHON, BARTLETT, WILLIS 121, 1283.

atonal

the proneural gene for chordotonal organs and photoreceptors: JARMAN, SUN, JAN AND JAN 121, 2019.

Autonomy

duels in Caenorhabditis development: SCHNABEL 121, 2219.

Autoregulation

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067.

Auxin

Arabidopsis Athb-8 expression in procambial cells: BAIMA, NOBILI, SESSA, LUCCHETTI, RUBERTI AND MORELLI 121, 4171.

maintenance of the quiescent center: KERK AND FELDMAN 121, 2825.

Avian

only melanocytes migrate dorsolaterally: ERICKSON AND GOINS 121, 915. role for PNA-binding molecules in migration of avian trunk neural crest: KRULL, COLLAZO, FRASER AND BRONNER-FRASER 121, 3733.

Avian B cell development

carbohydrate involvement in B cell development: MASTELLER, LARSEN, CARLSON, PICKEL, NICKOLOFF, LOWE, THOMPSON AND LEE 121, 1657.

Axial mesoderm

induction in chick Hensen's node: STOREY, SELLECK AND STERN 121, 417.

Nodal-related signaling in mesoderm patterning: JONES, KUEHN, HOGAN, SMITH AND WRIGHT 121, 3651.

production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

Axial patterning

MAP kinase in *Xenopus* mesoderm induction and axial patterning: LABONNE, BURKE AND WHITMAN 121, 1475.

zebrafish nk2.2 gene: BARTH AND WILSON 121, 1755.

Axis

longitudinal organization of the brain: SHIMAMURA, HARTIGAN, MARTINEZ, PUELLES AND RUBENSTEIN 121, 3923. role of fj in proximal-distal growth: VILLANO AND KATZ 121, 2767.

Axis duplication

goosecoid and lim1 expression and axis duplication in zebrafish: TOYAMA, O'CONNELL, WRIGHT, KUEHN AND DAWID 121, 383.

Axis formation

cardiac left-right development: DANOS AND YOST 121, 1467.

head formation in *Hydra*: TECHNAU AND HOLSTEIN **121**, 1273.

homeobox control of Spemann organizer: ZARAISKY, ECOCHARD, KAZANSKAYA, LUKYANOV, FESENKO AND DUPRAT 121, 3839.

initiation of the proximodistal axis in insect legs: CAMPBELL AND TOMLINSON 121, 619.

pH_i decrease important for axis formation in Xenopus: GUTKNECHT, KOSTER, TERTOOLEN, DE LAAT AND DURSTON 121, 1911.

two pathways for vegetal localization: KLOC AND ETKIN 121, 287.

Axogenesis

brain development in the grasshopper: BOYAN, THERIANOS, WILLIAMS AND REICHERT 121, 75.

Axolotl

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

Axon development

neurotrophins affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

Axon fasciculation

polysialic acid in the optic pathway: YIN, WATANABE AND RUTISHAUSER 121, 3439.

Axon guidance

expression pattern and function of Lazarillo:

SANCHEZ, GANFORNINA AND BASTIANI 121, 135,

polysialic acid in the optic pathway: YIN, WATANABE AND RUTISHAUSER 121. 3430

retinotectal interactions in vitro: YAMAGATA AND SANES 121, 189.

targeted ablation of CNS glia in Drosophila: HIDALGO, URBAN AND BRAND 121, 3703.

Axonal pathfinding

brain development in Drosophila: THERIANOS, LEUZINGER, HIRTH. GOODMAN AND REICHERT 121, 3849. Axonogenesis

tyrosine phosphatases in axonogenesis: STOKER, GEHRIG, HAJ AND BAY 121. 1833

Axotomy

periaxin in myelinating Schwann cells: SCHERER, XU, BANNERMAN, SHERMAN AND BROPHY 121, 4265.

developmental biology of the pancreas: SLACK 121, 1569.

bag of marbles

role of Drosophila Bag of marbles protein: MCKEARIN AND OHLSTEIN 121, 2937.

Basement membrane

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

Basic helix-loop-helix factor

regulation of the myoD gene in mouse embryos: GOLDHAMER, BRUNK, FAERMAN, KING, SHANI AND EMERSON 121, 637.

Basic helix-loop-helix proteins

hydra achaete-scute homolog: GRENS, MASON, MARSH AND BODE 121, 4027. BDNF

neurotrophins affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

Bergmann glia

epigenetic control of BLBP transcription: FENG AND HEINTZ 121, 1719.

anteroposterior specification in the CNS: COX AND HEMMATI-BRIVANLOU 121,

FGF signalling in Xenopus: KENGAKU AND OKAMOTO 121, 3121.

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

bHLH protein

scleraxis and skeletal formation in mouse: CSERJESI, BROWN, LIGON, LYONS, COPELAND, GILBERT, JENKINS AND OLSON 121, 1099.

Bicaudal

eggshell defects and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023.

of the coiled body: FERREIRA AND CARMO-FONSECA 121, 601.

Biomechanics

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121,

IMZ stiffness in Xenopus: MOORE, KELLER AND KOEHL 121, 3131.

Bithorax complex

Hox genes and segment identity: CASTELLI-GAIR AND AKAM 121, 2973. regulation by gap genes in *Drosophila*: CASARES AND SANCHEZ-HERRERO 121, 1855.

Blastema

msx genes and zebrafish fin regeneration: AKIMENKO, JOHNSON, WESTERFIELD AND EKKER 121, 347.

Blastocyst

CSF-1 and preimplantation development: BHATNAGAR, PAPAIOANNOU AND BIGGERS 121, 1333.

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

Blastoderm

mitotic delay dependent survival: RUDEN AND JACKLE 121, 63.

Blastomere

a polarising induction: HUTTER AND SCHNABEL 121, 1559.

alteration of mesoderm formation at MBT: KINOSHITA AND ASASHIMA 121, 1581.

calcium channels and the cell cycle in blastomeres: YAZAKI, TOSTI AND DALE 121, 1827.

homeobox control of Spemann organizer: ZARAISKY, ECOCHARD. KAZANSKAYA, LUKYANOV FESENKO AND DUPRAT 121, 3839.

vegetal plate specification in sea urchins: RANSICK AND DAVIDSON 121, 3215. XIPOU 2 has direct neuralizing activity:

WITTA, AGARWAL AND SATO 121,

BMP

anti-dorsalizing morphogenetic protein: MOOS JR., WANG AND KRINKS 121.

mesoderm induction by soluble Vg1: KESSLER AND MELTON 121, 2155.

bmp-2

development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA-BELMONTE, DUPREZ AND WOLPERT 121, 4329.

BMP-4

sog induces an ectopic axis: SCHMIDT, FRANCOIS, BIER AND KIMELMAN 121, 4319.

bmp-4

signalling during gut development: ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121, 3163

Border cells

FGFR regulation by C/EBP in cell migration: MURPHY, LEE, ANDREWS, SHILO AND MONTELL 121, 2255.

Boundary

zebrafish nk2.2 gene: BARTH AND WILSON 121, 1755.

Bovine oocyte

IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645.

Brachyury (T)

amphioxus Brachyury genes: HOLLAND, KOSCHORZ, HOLLAND AND HERRMANN 121, 4283.

mesodermal patterning by Brachyury and Pintallavis: O'REILLY, SMITH AND CUNLIFFE 121, 1351.

mesoderm production in mice: FAUST. SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

role of FGF activity in axis formation: GRIFFIN, PATIENT AND HOLDER 121, 2983.

Brain

development in the grasshopper: BOYAN, THERIANOS, WILLIAMS AND REICHERT 121, 75.

FGF and noggin neural induction and patterning: LAMB AND HARLAND 121, 3627

FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

Fgf8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439.

lineage restriction of myf-5 in the brain: TAJBAKHSH AND BUCKINGHAM 121,

longitudinal organization of the brain: SHIMAMURA, HARTIGAN, MARTINEZ, PUELLES AND RUBENSTEIN 121, 3923. Brain lipid binding protein

epigenetic control of BLBP transcription: FENG AND HEINTZ 121, 1719.

Branchial arch

somitomere and neural crest cells: TRAINOR AND TAM 121, 2569.

Branchial arch defect

RA alters hindbrain crest cell migration: LEE, OSUMI-YAMASHITA, NINOMIYA, MOON, ERIKSSON AND ETO 121, 825.

Branching

meristem development in Arabidopsis: TALBERT, ADLER, PARKS AND COMAI 121, 2723.

sulphated proteoglycans in kidney development: DAVIES, LYON, GALLAGHER AND GARROD 121, 1507.

Branching morphogenesis

branching of mesenchyme-free lung epithelium: NOGAWA AND ITO 121. 1015.

breathless

FGFR regulation by C/EBP in cell migration: MURPHY, LEE, ANDREWS, SHILO AND MONTELL 121, 2255.

bric à brac

cell rearrangement in ovary development: GODT AND LASKI 121, 173.

Broad-Complex

hormonal induction of Dopa decarboxylase in Drosophila: HODGETTS, CLARK, O'KEEFE, SCHOULS, CROSSGROVE, GUILD AND VON KALM 121, 3913.

bullwinkle

eggshell defects and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023.

Bursa of Fabricius

carbohydrate involvement in B cell development: MASTELLER, LARSEN, CARLSON, PICKEL, NICKOLOFF, LOWE, THOMPSON AND LEE 121,

BX-C

Polycomb-binding sites in the BX-C: CHIANG, O'CONNOR, PARO, SIMON AND BENDER 121, 1681.

c-fos

BDNF regulation by GABA: BERNINGER, MARTY, ZAFRA, DA PENHA BERZAGHI, THOENEN AND LINDHOLM 121, 2327.

c-kit

roles of SIF in melanocyte dispersal and survival: WEHRLE-HALLER AND WESTON 121, 731.

c-met

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813.

HGF/SF in mammary development: NIRANJAN, BULUWELA, YANT, PERUSINGHE, ATHERTON, PHIPPARD, DALE, GUSTERSON AND KAMALATI 121, 2897.

C/EBP

FGFR regulation by C/EBP in cell migration: MURPHY, LEE, ANDREWS, SHILO AND MONTELL 121, 2255.

Cadastral gene

LEUNIG regulates AGAMOUS expression: LIU AND MEYEROWITZ 121, 975.

Cadheri

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

neural crest cadherins: NAKAGAWA AND TAKEICHI 121, 1321.

Caenorhabditis elegans

a polarising induction: HUTTER AND SCHNABEL 121, 1559.

dosage compensation: HSU, CHUANG AND MEYER 121, 3323.

DSL protein structure/function: FITZGERALD AND GREENWALD 121, 4275.

duels in *Caenorhabditis* development: SCHNABEL **121**, 2219.

left-right asymmetry in the Caenorhabditis embryo: HUTTER AND SCHNABEL 121, 3417.

mab-21 gene: CHOW, HALL AND EMMONS 121, 3615.

meiotic progression: CHURCH, GUAN AND LAMBIE 121, 2525.

mes-1 and germ-cell fate in Caenorhabditis: STROME, MARTIN, SCHIERENBERG AND PAULSEN 121, 2961.

mosaic analysis of *let-23* gene function: KOGA AND OHSHIMA **121**, 2655.

neural expression of *ceh-10*: SVENDSEN AND MCGHEE **121**, 1253.

temporal control of collagen transcripts: LIU, KIRCH AND AMBROS 121, 2471.

terminal differentiation in Caenorhabditis: ROUGVIE AND AMBROS 121, 2491.

the EMS cell's response to induction: GOLDSTEIN 121, 1227.

TRA-2A directs hermaphrodite development: KUWABARA AND KIMBLE 121, 2995.

unc-4 control of VA motor neuron development: MILLER III AND NIEMEYER 121, 2877.

uterine fate induction in Caenorhabditis: NEWMAN, WHITE AND STERNBERG 121, 263. Caffeine

IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645.

Calciotropic hormone

PTHrP impairs breast development: WYSOLMERSKI, MCCAUGHERN-CARUCCI, DAIFOTIS, BROADUS AND PHILBRICK 121, 3539.

Calcium

calcium channels and the cell cycle in blastomeres: YAZAKI, TOSTI AND DALE 121, 1827.

fertilization and egg cytoplasmic reorganisation: ROEGIERS, MCDOUGALL AND SARDET 121, 3457.

nuclear Ca²⁺-releasing activity in embryos: KONO, CARROLL, SWANN AND WHITTINGHAM **121**, 1123.

patterns of free calcium in *Dictyostelium*: CUBITT, FIRTEL, FISCHER, JAFFE AND MILLER 121, 2291.

Calcium waves

patterns of free calcium in *Dictyostelium*: CUBITT, FIRTEL, FISCHER, JAFFE AND MILLER 121, 2291.

cAMP pathway

head activator signal transduction: GALLIOT, WELSCHOF, SCHUCKERT, HOFFMEISTER AND SCHALLER 121, 1205.

Campaniform sensilla

ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161.

Cance

asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS, SOFRONIEW AND RABBITTS 121, 2909.

Capacitation

mouse sperm capacitation: VISCONTI, BAILEY, MOORE, PAN, OLDS-CLARKE AND KOPF 121, 1129.

regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139.

cappuccino

gratuitous localization of K10 mRNA: SERANO AND COHEN 121, 3013.

Carbohydrate

involvement in B cell development: MASTELLER, LARSEN, CARLSON, PICKEL, NICKOLOFF, LOWE, THOMPSON AND LEE 121, 1657.

Cardiac development

α4 integrin-deficient mice: YANG, RAYBURN AND HYNES 121, 549. left-right development: DANOS AND YOST 121, 1467.

Cardiac gene expression

cardiac differentiation without endoderm: GANNON AND BADER 121, 2439.

Cardiac specification/determination

XNkx-2.3, a second vertebrate homologue of tinman: EVANS, YAN, MURILLO, PONCE AND PAPALOPULU 121, 3889.

Cardiogenesis

VCAM-1-deficient mice: KWEE, BALDWIN, SHEN, STEWART, BUCK, BUCK AND LABOW 121, 489.

Cardiovascular system

chimeric mice with excess neuropilin:

KITSUKAWA, SHIMONO, KAWAKAMI, KONDOH AND FUJISAWA 121, 4309.

Cash-1

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887

B-catenin

and mouse development at gastrulation: HAEGEL, LARUE, OHSUGI, FEDOROV, HERRENKNECHT AND KEMLER 121, 3529

Catenins

neural crest cadherins: NAKAGAWA AND TAKEICHI 121, 1321.

caudal

regulation and function: SCHULZ AND TAUTZ 121, 1023.

Ca2+

mouse sperm capacitation: VISCONTI, BAILEY, MOORE, PAN, OLDS-CLARKE AND KOPF 121, 1129.

Ca²⁺-binding protein

Drosophila E63 genes: ANDRES AND THUMMEL 121, 2667.

Ca2+ channels

BDNF regulation by GABA: BERNINGER, MARTY, ZAFRA, DA PENHA BERZAGHI, THOENEN AND LINDHOLM 121, 2327.

Ca2+ transients

sperm-induced Ca²⁺ rises at metaphase: JONES, CARROLL, MERRIMAN, WHITTINGHAM AND KONO **121**, 3259.

cdc25

pelota meiotic G₂/M arrest: EBERHART AND WASSERMAN 121, 3477. two CDC25 homologues:

two CDC25 homologues:

WICKRAMASINGHE, BECKER, ERNST, RESNICK, CENTANNI, TESSAROLLO, GRABEL AND DONOVAN 121, 2047.

Cdc25 phosphatase

lineage-specific expression of *cdc25*; BISSEN **121**, 3035.

cDNA amplification

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

cDNA library

from gastrulating mouse embryos: HARRISON, DUNWOODIE, ARKELL, LEHRACH AND BEDDINGTON 121, 2479.

ceh-10

neural expression of *ceh-10*: SVENDSEN AND MCGHEE **121**, 1253.

Cell ablation

targeted ablation of CNS glia in *Drosophila*: HIDALGO, URBAN AND BRAND 121, 3703.

Cell adhesion

β-catenin and mouse development at gastrulation: HAEGEL, LARUE, OHSUGI, FEDOROV, HERRENKNECHT AND KEMLER 121, 3529.

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

α4 integrin-deficient mice: YANG, RAYBURN AND HYNES 121, 549. neural crest cadherins: NAKAGAWA AND

TAKEICHI 121, 1321.

tyrosine phosphatases in axonogenesis: STOKER, GEHRIG, HAJ AND BAY 121, 1833.

Cell-cell communication

- initiation of the proximodistal axis in insect legs: CAMPBELL AND TOMLINSON 121, 619.
- wingless and myogenesis: BAYLIES, MARTINEZ ARIAS AND BATE 121, 3829.

Cell-cell interaction

- clonal analysis of Su(H): SCHWEISGUTH 121, 1875.
- Sek-1 and segmental patterning: XU, ALLDUS, HOLDER AND WILKINSON 121, 4005
- seven-up requires Ras activation: BEGEMANN, MICHON, VOORN, WEPF AND MLODZIK 121, 225.

Cell-cell signalling

TRA-2A directs hermaphrodite development: KUWABARA AND KIMBLE 121, 2995.

Cell culture

immortal mouse melanoblasts: SVIDERSKAYA, WAKELING AND BENNETT 121, 1547.

Cell cycle

- Caenorhabditis meiotic progression: CHURCH, GUAN AND LAMBIE 121, 2525
- calcium channels and the cell cycle in blastomeres: YAZAKI, TOSTI AND DALE 121 1827
- cell cycle dependence of eve expression: WEIGMANN AND LEHNER 121, 3713.
- dally, a putative integral membrane proteoglycan, affects cell division: NAKATO, FUTCH AND SELLECK 121, 3687.
- lineage-specific expression of *cdc25*: BISSEN **121**, 3035.
- mouse egg activation: AYABE, KOPF AND SCHULTZ 121, 2233.
- multiple cell cycle events precede targetrelated neuronal death: HERRUP AND BUSSER 121, 2385.
- pelota meiotic G₂/M arrest: EBERHART AND WASSERMAN 121, 3477.
- regulation of gene expression in the CNS: CUI AND DOE 121, 3233.
- role of *Drosophila* Bag of marbles protein: MCKEARIN AND OHLSTEIN 121, 2937. two CDC25 homologues:
- wo CDC25 homologues:
 WICKRAMASINGHE, BECKER, ERNST,
 RESNICK, CENTANNI, TESSAROLLO,
 GRABEL AND DONOVAN 121, 2047.
- yan function in division versus differentiation: ROGGE, GREEN, URANO, HORN-SABAN, MLODZIK, SHILO, HARTENSTEIN AND BANERJEE 121, 3047

Cell death

- multiple cell cycle events precede targetrelated neuronal death: HERRUP AND BUSSER 121, 2385.
- muscle sensory neurons require NT-3 to survive: OAKLEY, GARNER, LARGE AND FRANK 121, 1341.

Cell differentiation

- CLV3 regulates meristem development: CLARK, RUNNING AND MEYEROWITZ 121, 2057.
- differentiation of mammary alveolar cells:

- ROBINSON, MCKNIGHT, SMITH AND HENNIGHAUSEN 121, 2079.
- haematopoietic development: GUIMARES, BAZAN, ZLOTNIK, WILES, GRIMALDI, LEE AND MCCLANAHAN 121, 3335.
- molecular cloning of AP-2: MOSER, IMHOF, PSCHERER, BAUER, AMSELGRUBER, SINOWATZ, HOFSTADTER, SCHULE AND BUETTNER 121, 2779.
- XDCoH the cofactor of LFB1 in Xenopus: POGGE V. STRANDMANN AND RYFFEL 121, 1217.

Cell division

- CLV3 regulates meristem development: CLARK, RUNNING AND MEYEROWITZ 121, 2057.
- dally, a putative integral membrane proteoglycan, affects cell division: NAKATO, FUTCH AND SELLECK 121, 3687.

Cell expansion

conditional root expansion mutants: HAUSER, MORIKAMI AND BENFEY 121, 1237.

Cell fate

- hydra achaete-scute homolog: GRENS, MASON, MARSH AND BODE 121, 4027.
- ligands of thyroid receptors induce cones: KELLEY, TURNER AND REH 121, 3777.
- mes-1 and germ-cell fate in Caenorhabditis: STROME, MARTIN, SCHIERENBERG AND PAULSEN 121, 2961.
- seven-up function and ras signaling: KRAMER, WEST AND HIROMI 121, 1361.
- wingless induces transdetermination: MAVES AND SCHUBIGER 121, 1263.
- XIPOU 2 has direct neuralizing activity: WITTA, AGARWAL AND SATO 121, 721.

Cell fusion

founder cells and *Drosophila* myogenesis: RUSHTON, DRYSDALE, ABMAYR, MICHELSON AND BATE 121, 1979.

Cell growth

ventral veinless in Drosophila development: DE CELIS, LLIMARGAS AND CASANOVA 121, 3405.

Cell induction

the EMS cell's response to induction: GOLDSTEIN 121, 1227.

Cell interaction

- dynamics of thin filopodia during sea urchin gastrulation: MILLER, FRASER AND MCCLAY 121, 2501.
- ectoderm differentiation in sea urchins: WIKRAMANAYAKE, BRANDHORST AND KLEIN 121, 1497.
- vegetal plate specification in sea urchins: RANSICK AND DAVIDSON 121, 3215.

Cell lineage

- a polarising induction: HUTTER AND SCHNABEL 121, 1559.
- analysis of DNA-binding proteins in O-2A differentiation: BARNETT, ROSARIO, DOYLE, KILBEY, LOVATT AND GILLESPIE 121, 3969.
- composition of the Organizer: VODICKA AND GERHART 121, 3505.
- heart Purkinje fiber differentiation: GOURDIE, MIMA, THOMPSON AND MIKAWA 121, 1423
- left-right asymmetry in the Caenorhabditis embryo: HUTTER AND SCHNABEL 121, 3417.

- lineage-specific expression of *cdc25*: BISSEN
- neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER 121, 525.
- spiralian cell fate specification:
- MARTINDALE AND HENRY 121, 3175. tissue progenitors in zebrafish gastrula: SHIH AND FRASER 121, 2755.

Cell migration

- eggshell defects and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023.
- FGFR regulation by C/EBP in cell migration: MURPHY, LEE, ANDREWS, SHILO AND MONTELL 121, 2255.
- migration of *Drosophila* primordial germ cells: JAGLARZ AND HOWARD 121, 3495.
- myogenic cell migration in chick embryos: HAYASHI AND OZAWA 121, 661.
- neural crest cell migration: BIRGBAUER, SECHRIST, BRONNER-FRASER AND FRASER 121, 935.
- neural crest regeneration: SECHRIST, NIETO, ZAMANIAN AND BRONNER-FRASER 121, 4103.
- TGFα induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.
- tyrosine phosphatases in axonogenesis: STOKER, GEHRIG, HAJ AND BAY 121, 1833

Cell motility

myosin II in oogenesis and early cleavage: WHEATLEY, KULKARNI AND KARESS 121, 1937.

Cell polarity

- axonal guidance in chick retina: STIER AND SCHLOSSHAUER 121, 1443.
- components of the *frizzled* signaling pathway: KRASNOW, WONG AND ADLER **121**, 4095
- conditional root expansion mutants: HAUSER, MORIKAMI AND BENFEY 121, 1237.

Cell proliferation

role of Awh in imaginal development: CURTISS AND HEILIG 121, 3819.

Cell selection

positioning of SNS invagination centers: GONZALEZ-GAITAN AND JACKLE 121, 2313.

Cell shape

Drosophila Rac genes: HARDEN, LOH, CHIA AND LIM 121, 903.

Cell signalling

- Caenorhabditis elegans mab-21 gene: CHOW, HALL AND EMMONS 121, 3615.
- dorsalization of the neural tube by non-neural ectoderm: DICKINSON, SELLECK, MCMAHON AND BRONNER-FRASER 121, 2099.
- DWnt-4, a novel Drosophila Wnt gene: GRABA, GIESELER, ARAGNOL, LAURENTI, MARIOL, BERENGER, SAGNIER AND PRADEL 121, 209.
- functional analysis of *Drosophila* Deltex: MATSUNO, DIEDERICH, GO, BLAUMUELLER AND ARTAVANIS-TSAKONAS 121, 2633.
- hedgehog in Drosophila imaginal discs: FELSENFELD AND KENNISON 121, 1.
- initiation of the proximodistal axis in insect legs: CAMPBELL AND TOMLINSON 121, 619.

4414 Subject Index

mosaic analysis of *let-23* gene function: KOGA AND OHSHIMA **121**, 2655. muscle induction in *Drosophila*: BAKER

AND SCHUBIGER 121, 1387.

Notch1 in somite segmentation: CONLON,

REAUME AND ROSSANT 121, 1533. positioning of SNS invagination centers: GONZALEZ-GAITAN AND JACKLE

Cell specification

cell cycle dependence of eve expression: WEIGMANN AND LEHNER 121, 3713. duels in Caenorhabditis development:

SCHNABEL 121, 2219.

spiralian cell fate specification: MARTINDALE AND HENRY 121, 3175.

Cell surface

chimeric mice with excess neuropilin: KITSUKAWA, SHIMONO, KAWAKAMI, KONDOH AND FUJISAWA 121, 4309.

LAMP interacts selectively with limbic neurons: ZHUKAREVA AND LEVITT 121, 1161.

Cell tractoring

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

Cell type specification

in the *Drosophila* endoderm: TEPASS AND HARTENSTEIN 121, 393.

Cement gland

GSK3β and ectodermal cell fate determination: ITOH, TANG, NEEL AND SOKOL **121**, 3979.

hedgehog gene family of Xenopus: EKKER, MCGREW, LAI, LEE, VON KESSLER, MOON AND BEACHY 121, 2337.

induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

Central nervous system

activation of neuroblast proliferation: DATTA

brain development in the grasshopper: BOYAN, THERIANOS, WILLIAMS AND REICHERT 121, 75.

peripheral projections and central neurogenesis: BECKER, BERLINER, NITABACH, GAN AND MACAGNO 121, 359.

Centrosome

homeotic regulation of *cnn*: HEUER, LI AND KAUFMAN 121, 3861.

Cerebellum

genetic control of cerebellar patterning: MILLEN, HUI AND JOYNER 121, 3935.

multiple cell cycle events precede targetrelated neuronal death: HERRUP AND BUSSER 121, 2385.

Cerebral cortex

cortex cell dispersion patterns in trangenic mosaics: TAN, FAULKNER-JONES, BREEN, WALSH, BERTRAM AND REESE 121, 1029.

neuronal migration in the cerebral cortex:
O'ROURKE, SULLIVAN, KAZNOWSKI,
JACOBS AND MCCONNELL 121, 2165.

Chemospecificity

LAMP interacts selectively with limbic neurons: ZHUKAREVA AND LEVITT 121, 1161.

Chick

axonal guidance in chick retina: STIER AND SCHLOSSHAUER 121, 1443. carbohydrate involvement in B cell development: MASTELLER, LARSEN, CARLSON, PICKEL, NICKOLOFF, LOWE, THOMPSON AND LEE 121, 1657.

cardiac differentiation without endoderm: GANNON AND BADER 121, 2439.

CNTF promotes photoreceptor development: FUHRMANN, KIRSCH AND HOFMANN 121, 2695.

development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763.

development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA-BELMONTE, DUPREZ AND WOLPERT 121, 4329.

dorsalization of the neural tube by non-neural ectoderm: DICKINSON, SELLECK, MCMAHON AND BRONNER-FRASER 121, 2099

FGF-3 in chick development: MAHMOOD, KIEFER, GUTHRIE, DICKSON AND MASON 121, 1399.

GPA receptor function and expression: HELLER, FINN, HUBER, NISHI, GEISSEN, PUSCHEL AND ROHRER 121, 2681.

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813.

Hox genes and vertebral transposition: BURKE, NELSON, MORGAN AND TABIN 121, 333.

induction in chick Hensen's node: STOREY, SELLECK AND STERN 121, 417.

induction of cardiac myogenesis: SCHULTHEISS, XYDAS AND LASSAR 121, 4203.

muscle sensory neurons require NT-3 to survive: OAKLEY, GARNER, LARGE AND FRANK 121, 1341.

myogenic cell migration in chick embryos: HAYASHI AND OZAWA 121, 661.

neural crest cell migration: BIRGBAUER, SECHRIST, BRONNER-FRASER AND FRASER 121, 935.

neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER 121, 525.

neural crest regeneration: SECHRIST, NIETO, ZAMANIAN AND BRONNER-FRASER 121, 4103.

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

oligodendrocyte development in chick spinal cord: ONO, BANSAL, PAYNE, RUTISHAUSER AND MILLER 121, 1743.

paraxial mesoderm myogenic induction: STERN, BROWN AND HAUSCHKA 121,

plasticity of transposed rhombomeres: GRAPIN-BOTTON, BONNIN, MCNAUGHTON, KRUMLAUF AND LE DOUARIN 121, 2707.

polysialic acid in the optic pathway: YIN, WATANABE AND RUTISHAUSER 121, 3439

retinotectal interactions in vitro: YAMAGATA AND SANES 121, 189.

Shh in chick and mouse embryo: MARTI, TAKADA, BUMCROT, SASAKI AND MCMAHON 121, 2537.

signalling during gut development:

ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121, 3163

truncated trkB in the developing chick: BIFFO, OFFENHAUSER, CARTER AND BARDE 121, 2461.

versican localization in barrier tissues: LANDOLT, VAUGHAN, WINTERHALTER AND ZIMMERMANN 121 2303

Chick eye

CNTF promotes photoreceptor development: FUHRMANN, KIRSCH AND HOFMANN 121, 2695.

integrin α₂β₁ in developing retina: BRADSHAW, MCNAGNY, GERVIN, CANN, GRAF AND CLEGG **121**, 3593.

Chicken

heart Purkinje fiber differentiation: GOURDIE, MIMA, THOMPSON AND MIKAWA 121, 1423.

neural crest cadherins: NAKAGAWA AND TAKEICHI 121, 1321.

tyrosine phosphatases in axonogenesis: STOKER, GEHRIG, HAJ AND BAY 121,

Chief cell

TGFα alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

Chimera

chimeras show non-autonomy of *floricaula*: CARPENTER AND COEN **121**, 19.

chimerism with mouse male fetal germ cells: KATO AND TSUNODA 121, 779.

in ovo mouse somite transplantation: FONTAINE-PERUS, JARNO, FOURNIER LE RAY, LI AND PAULIN 121, 1705.

T in morphogenetic movement: WILSON, MANSON, SKARNES AND BEDDINGTON 121, 877.

Chimeric mouse

development of GATA-I⁻ hematopoietic cells: PEVNY, LIN, D'AGATI, SIMON, ORKIN AND COSTANTINI 121, 163.

with excess neuropilin: KITSUKAWA, SHIMONO, KAWAKAMI, KONDOH AND FUJISAWA 121, 4309.

Chirality

planar polarity in *Drosophila*: WEHRLI AND TOMLINSON 121, 2451.

Choline acetyltransferase

development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763.

Chondrogenesis

scleraxis and skeletal formation in mouse: CSERJESI, BROWN, LIGON, LYONS, COPELAND, GILBERT, JENKINS AND OLSON 121, 1099.

Chondroitin sulfate proteoglycan

versican localization in barrier tissues: LANDOLT, VAUGHAN, WINTERHALTER AND ZIMMERMANN 121, 2303

Chordotonal organs

the proneural gene for chordotonal organs and photoreceptors: JARMAN, SUN, JAN AND JAN 121, 2019.

Chorion

early placental development in mouse embryos: DOWNS AND GARDNER 121, 407

Chromatin

gene expression in preimplantation mouse embryo: WORRAD, TURNER AND SCHULTZ 121, 2949.

maturation in mouse embryos: THOMPSON, LEGOUY, CHRISTIANS AND RENARD 121, 3425.

Chromosomal localization

two CDC25 homologues: WICKRAMASINGHE, BECKER, ERNST, RESNICK, CENTANNI, TESSAROLLO, GRABEL AND DONOVAN 121, 2047.

Chromosome condensation

pelota meiotic G₂/M arrest: EBERHART AND WASSERMAN 121, 3477.

Chromosome puff

Drosophila E63 genes: ANDRES AND THUMMEL 121, 2667.

Cilia

tektin mRNA and cilia length in sea urchins: NORRANDER, LINCK AND STEPHENS 121, 1615.

Ciliary neurotrophic factor

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

CNTF promotes photoreceptor development: FUHRMANN, KIRSCH AND HOFMANN 121, 2695.

GPA receptor function and expression: HELLER, FINN, HUBER, NISHI, GEISSEN, PUSCHEL AND ROHRER 121, 2681

Ciliogenesis

tektin mRNA and cilia length in sea urchins: NORRANDER, LINCK AND STEPHENS 121, 1615.

cis-acting elements

Hoxc-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4339.

CLAVATA3

CLV3 regulates meristem development: CLARK, RUNNING AND MEYEROWITZ 121, 2057.

cloche

required by endothelial and blood lineages: STAINIER, WEINSTEIN, DETRICH III, ZON AND FISHMAN 121, 3141.

Clonal analysis

adult requirements for exd: RAUSKOLB, SMITH, PEIFER AND WIESCHAUS 121, 3663.

control of *Drosophila* adult pattern by extradenticle: GONZALEZ-CRESPO AND MORATA 121, 2117.

cortex cell dispersion patterns in trangenic mosaics: TAN, FAULKNER-JONES, BREEN, WALSH, BERTRAM AND REESE 121, 1029.

Drosophila engrailed and developmental compartments: TABATA, SCHWARTZ, GUSTAVSON, ALI AND KORNBERG 121, 3359.

cne

homeotic gene in *Drosophila*: MOHLER, MAHAFFEY, DEUTSCH AND VANI **121**, 237.

cNkx-2.5

induction of cardiac myogenesis: SCHULTHEISS, XYDAS AND LASSAR 121, 4203. CNS

brain development in *Drosophila*: THERIANOS, LEUZINGER, HIRTH, GOODMAN AND REICHERT **121**, 3849. cortical localization of pros at mitosis: SPANA

AND DOE 121, 3187.

evolution of the insect CNS: BROADUS AND DOE 121, 3989.

FGF signalling in *Xenopus*: KENGAKU AND OKAMOTO **121**, 3121.

homeotic regulation of cnn: HEUER, LI AND KAUFMAN 121, 3861.

hormonal induction of Dopa decarboxylase in Drosophila: HODGETTS, CLARK, O'KEEFE, SCHOULS, CROSSGROVE, GUILD AND VON KALM 121, 3913.

aeuronal migration in the cerebral cortex: O'ROURKE, SULLIVAN, KAZNOWSKI, JACOBS AND MCCONNELL 121, 2165.

neurotrophins affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

repo and glia function: HALTER, URBAN, RICKERT, NER, ITO, TRAVERS AND TECHNAU 121, 317.

Shh in chick and mouse embryo: MARTI, TAKADA, BUMCROT, SASAKI AND MCMAHON 121, 2537.

targeted ablation of CNS glia in *Drosophila*: HIDALGO, URBAN AND BRAND 121, 3703.

CNTE

promotes photoreceptor development: FUHRMANN, KIRSCH AND HOFMANN 121, 2695.

CNTFRa

GPA receptor function and expression: HELLER, FINN, HUBER, NISHI, GEISSEN, PUSCHEL AND ROHRER 121, 2681.

Coat color

embryonic expression of agouti: MILLAR, MILLER, STEVENS AND BARSH 121, 3223.

Cochlear ganglion

inner ear defects of trkB and trkC mutant mice: SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

Cofactor

control of *Drosophila* adult pattern by extradenticle: GONZALEZ-CRESPO AND MORATA 121, 2117.

XDCoH the cofactor of LFB1 in Xenopus: POGGE V. STRANDMANN AND RYFFEL 121, 1217.

Coiled body

biogenesis of the coiled body: FERREIRA AND CARMO-FONSECA 121, 601.

Collagen

integrin α₂β₁ in developing retina: BRADSHAW, MCNAGNY, GERVIN, CANN, GRAF AND CLEGG **121**, 3593. temporal control of collagen transcripts: LIU, KIRCH AND AMBROS **121**, 2471.

commissureless

brain development in *Drosophila*: THERIANOS, LEUZINGER, HIRTH, GOODMAN AND REICHERT 121, 3849. midline glial cell death: SONNENFELD AND JACOBS 121, 569.

Commitment

LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121,

Community effect

Sek-1 and segmental patterning: XU, ALLDUS, HOLDER AND WILKINSON 121, 4005.

Comparative developmental studies

Hox genes and vertebral transposition: BURKE, NELSON, MORGAN AND TABIN 121, 333.

Compartment

Dlw specifies dorsal wing identity in Drosophila: TIONG, NASH AND BENDER 121, 1649.

Drosophila engrailed and developmental compartments: TABATA, SCHWARTZ, GUSTAVSON, ALI AND KORNBERG 121, 3359.

engrailed and wing morphogenesis: GUILLEN, MULLOR, CAPDEVILA, SANCHEZ-HERRERO, MORATA AND GUERRERO 121, 3447.

Notch and wingless in the fly wing: RULIFSON AND BLAIR 121, 2813.

organizing activity in the *Drosophila* wing: DIAZ-BENJUMEA AND COHEN 121, 4215.

proximal-distal pattern in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN 121, 589.

regulation of the ci gene: SCHWARTZ, LOCKE, NISHIDA AND KORNBERG 121, 1625.

Competence factor

mesoderm patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429.

Compound eye

morphogenetic furrow and tissue polarity: MA AND MOSES 121, 2279.

role of Awh in imaginal development: CURTISS AND HEILIG 121, 3819.

Confocal microscopy

neuronal migration in the cerebral cortex: O'ROURKE, SULLIVAN, KAZNOWSKI, JACOBS AND MCCONNELL 121, 2165.

Connective tissue

homeobox genes: OLIVER, WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN, ZIPURSKY AND GRUSS 121, 693.

Connexin

gap junctional blockade in early Xenopus embryos: PAUL, YU, BRUZZONE, GIMLICH AND GOODENOUGH 121, 371.

heart Purkinje fiber differentiation: GOURDIE, MIMA, THOMPSON AND MIKAWA 121, 1423.

Convergence

cell rearrangement in ovary development: GODT AND LASKI 121, 173.

Convergent extension

IMZ stiffness in Xenopus: MOORE, KELLER AND KOEHL 121, 3131.

CORE mutant

conditional root expansion mutants: HAUSER, MORIKAMI AND BENFEY 121, 1237.

Cortex

fertilization and egg cytoplasmic reorganisation: ROEGIERS, MCDOUGALL AND SARDET 121, 3457.

Cortical specification

control of cortical neuronal phenotype: FERRI AND LEVITT 121, 1151. CRABP-II

CRABPI and CRABPII knockout: LAMPRON, ROCHETTE-EGLY, GORRY, DOLLE, MARK, LUFKIN, LEMEUR AND CHAMBON 121, 539.

polydactyly in CRABP-II mutant mice: FAWCETT, PASCERI, FRASER, COLBERT, ROSSANT AND GIGUERE 121. 671.

Craniofacial development

goosecoid-null mice: RIVERA-PEREZ, MALLO, GENDRON-MAGUIRE, GRIDLEY AND BEHRINGER 121, 3005. goosecoid knockout: YAMADA,

MANSOURI, TORRES, STUART, BLUM, SCHULTZ, DE ROBERTIS AND GRUSS 121, 2917.

Pax-6 in eye and nasal development: GRINDLEY, DAVIDSON AND HILL 121, 1433.

RA alters hindbrain crest cell migration: LEE, OSUMI-YAMASHITA, NINOMIYA, MOON, ERIKSSON AND ETO 121, 825. somitomere and neural crest cells: TRAINOR AND TAM 121. 2569.

CREB transcription factor

head activator signal transduction: GALLIOT, WELSCHOF, SCHUCKERT, HOFFMEISTER AND SCHALLER 121, 1205.

Cryoculture

axonal guidance in chick retina: STIER AND SCHLOSSHAUER 121, 1443.

Cryptocephalic pupa

functions of E74 during Drosophila metamorphosis: FLETCHER, BURTIS, HOGNESS AND THUMMEL 121, 1455. "SF-1

and preimplantation development:
BHATNAGAR, PAPAIOANNOU AND
BIGGERS 121, 1333.

cubitus interruptus

ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161. regulation of the ci gene: SCHWARTZ, LOCKE, NISHIDA AND KORNBERG 121, 1625.

curly tail

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.

Cutaneous afferent

muscle sensory neurons require NT-3 to survive: OAKLEY, GARNER, LARGE AND FRANK 121, 1341.

cut

PNS lineages in *Drosophila*: BREWSTER AND BODMER **121**, 2923.

regulatory interactions between cut and poxn: VERVOORT, ZINK, PUJOL, VICTOIR, DUMONT, GHYSEN AND DAMBLY-CHAUDIERE 121, 3111.

Cyclic ADP ribose

IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645.

mouse egg activation: AYABE, KOPF AND SCHULTZ 121, 2233.

Cyclic AMP

regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139. cvclin A mutant

mitotic delay dependent survival: RUDEN AND JACKLE 121, 63.

Cyclin B

metaphase I arrest in maturing oocytes: HAMPL AND EPPIG 121, 925.

cyclin B mutant

mitotic delay dependent survival: RUDEN AND JACKLE 121, 63.

Cyclin E

regulation of S phase by cyclin E: RICHARDSON, O'KEEFE, MARTY AND SAINT 121, 3371.

Cycloheximide

sperm-induced Ca²⁺ rises at metaphase: JONES, CARROLL, MERRIMAN, WHITTINGHAM AND KONO **121**, 3259.

cyclops

Pax proteins and eye development: MACDONALD, BARTH, XU, HOLDER, MIKKOLA AND WILSON 121, 3267.

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

CvIIIa

spatial gene regulation by Zn finger factor: WANG, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1111.

Cytoblast

role of *Drosophila* Bag of marbles protein: MCKEARIN AND OHLSTEIN 121, 2937.

Cytokine

proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.

Cytokinesis

regulation of gene expression in the CNS: CUI AND DOE 121, 3233.

Cytoplasmic determinant

dorsal activity in *Xenopus* eggs: HOLOWACZ AND ELINSON 121, 2789.

Cytoskeleton

Drosophila Rac genes: HARDEN, LOH, CHIA AND LIM 121, 903.

eggshell defects and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023. translational control of *oskar*: MARKUSSEN.

michon, Breitwieser and EPHRUSSI 121, 3723.

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

dally

a putative integral membrane proteoglycan, affects cell division: NAKATO, FUTCH AND SELLECK 121, 3687.

Danio (See Zebrafish)

daughter less

cell type specification in the *Drosophila* endoderm: TEPASS AND HARTENSTEIN 121, 393.

deadpan (dpn)

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121, 3549.

decapentaplegic

cell signalling and adhesion in the foregut: PANKRATZ AND HOCH 121, 1885.

dorsal gradients and mesoderm induction in Drosophila: MAGGERT, LEVINE AND FRASCH 121, 2107. dpp signaling requires schnurri: STAEHLING- HAMPTON, LAUGHON AND HOFFMANN 121, 3393.

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL **121**, 2265.

shs acts in *Drosophila* eye development: TREISMAN, LAI AND RUBIN 121, 2835. wg inhibits the morphogenetic furrow:

TREISMAN AND RUBIN 121, 3519.

Dedifferentiation

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

DEFICIENS

in vivo and in vitro functions of the DEFICIENS gene: ZACHGO, SILVA, MOTTE, TROBNER, SAEDLER AND SCHWARZ-SOMMER 121, 2861.

Delta

DSL protein structure/function: FITZGERALD AND GREENWALD 121, 4275.

Delta

mouse delta-like gene: BETTENHAUSEN, HRABE DE ANGELIS, SIMON, GUENET AND GOSSLER 121, 2407. Serrate activates Notch: GU, HUKRIEDE

AND FLEMING 121, 855.

Deltex

functional analysis of *Drosophila* Deltex: MATSUNO, DIEDERICH, GO, BLAUMUELLER AND ARTAVANIS-TSAKONAS 121, 2633.

Dermis

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

Dermomyotome

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

Desiccation tolerance

late embryo development in *Arabidopsis*: NAMBARA, KEITH, MCCOURT AND NAITO **121**, 629.

Desmin

in ovo mouse somite transplantation: FONTAINE-PERUS, JARNO, FOURNIER LE RAY, LI AND PAULIN 121, 1705.

Desmocollin

expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

esmosome

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

Determination

function of Polycomb in mice and flies: MULLER, GAUNT AND LAWRENCE 121, 2847.

regulatory interactions between cut and poxn: VERVOORT, ZINK, PUJOL, VICTOIR, DUMONT, GHYSEN AND DAMBLY-CHAUDIERE 121, 3111.

Development

heart Purkinje fiber differentiation: GOURDIE, MIMA, THOMPSON AND MIKAWA 121, 1423.

ligands of thyroid receptors induce cones: KELLEY, TURNER AND REH 121, 3777.

Developmental patterning

msx genes and zebrafish fin regeneration:

AKIMENKO, JOHNSON, WESTERFIELD AND EKKER 121, 347.

Developmental regulation

of the ci gene: SCHWARTZ, LOCKE, NISHIDA AND KORNBERG 121, 1625.

regulation of ftz by runt and hairy: TSAI AND GERGEN 121, 453.

Dictvostelium

patterns of free calcium in Dictyostelium: CUBITT, FIRTEL, FISCHER, JAFFE AND MILLER 121, 2291.

Differential splicing

Fgf8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439.

differentiation

analysis of DNA-binding proteins in O-2A differentiation: BARNETT, ROSARIO, DOYLE, KILBEY, LOVATT AND GILLESPIE 121, 3969.

FGF-induced lens differentiation in vivo: ROBINSON, OVERBEEK, VERRAN. GRIZZLE, STOCKARD, FRIESEL, MACIAG AND THOMPSON 121, 505. immortal mouse melanoblasts:

SVIDERSKAYA, WAKELING AND BENNETT 121, 1547.

DiGeorge syndrome

Hoxa-3- mutant mice: MANLEY AND CAPECCHI 121, 1989.

expression of Msx genes in mouse. regeneration: REGINELLI, WANG, SASSOON AND MUNEOKA 121, 1065. DiI

timing of topographic cues: CHIEN, CORNEL AND HOLT 121, 2621. Dimerization XDCoH the cofactor of LFB1 in Xenopus:

POGGE V. STRANDMANN AND RYFFEL 121, 1217.

Diphtheria toxin

genetic ablation of petal and stamen primordia: DAY, GALGOCI AND IRISH 121, 2887.

Diptera

evolutionary conservation of nanos: CURTIS, APFELD AND LEHMANN 121, 1899.

dishevelled

components of the frizzled signaling pathway: KRASNOW, WONG AND ADLER 121,

properties of Xenopus dishevelled: SOKOL, KLINGENSMITH, PERRIMON AND ITOH 121, 1637.

Distal cap

neural fate of distal epiblast: QUINLAN, WILLIAMS, TAN AND TAM 121, 87.

mouse delta-like gene: BETTENHAUSEN, HRABE DE ANGELIS, SIMON, GUENET AND GOSSLER 121, 2407.

DNA binding

regulation of dosage compensation: BASHAW AND BAKER 121, 3245.

DNA methylation

demethylation of a muscle-specific transgene: GRIESHAMMER, MCGREW AND ROSENTHAL 121, 2245.

H19 imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121, 4195.

transgene methylation in embryos and ES cells: WENG, MAGNUSON AND STORB 121, 2853.

DNA-mobility shift assay

analysis of DNA-binding proteins in O-2A differentiation: BARNETT, ROSARIO, DOYLE, KILBEY, LOVATT AND GILLESPIE 121, 3969.

Domain boundary

su(Hw) protein and dosage compensation: ROSEMAN, SWAN AND GEYER 121. 3573

Dominant negative

FGFR1 in the lens: ROBINSON, MACMILLAN-CROW, THOMPSON AND OVERBEEK 121, 3959.

gap junctional blockade in early Xenopus embryos: PAUL, YU, BRUZZONE, GIMLICH AND GOODENOUGH 121, 371

PDGF in Xenopus gastrulation: ATALIOTIS, SYMES, CHOU, HO AND MERCOLA 121, 3099

role of FGF activity in axis formation: GRIFFIN, PATIENT AND HOLDER 121. 2983

Dopa decarboxylase

hormonal induction of Dopa decarboxylase in Drosophila: HODGETTS, CLARK, O'KEEFE, SCHOULS, CROSSGROVE. GUILD AND VON KALM 121, 3913.

dorsal

dorsal gradients and mesoderm induction in Drosophila: MAGGERT, LEVINE AND FRASCH 121, 2107.

Dorsal axis

dorsal activity in Xenopus eggs: HOLOWACZ AND ELINSON 121, 2789.

properties of Xenopus dishevelled: SOKOL, KLINGENSMITH, PERRIMON AND ITOH 121, 1637.

regulation of axial pattern by Xgsk-3: PIERCE AND KIMELMAN 121, 755.

Dorsal closure

Drosophila Rac genes: HARDEN, LOH, CHIA AND LIM 121, 903.

Dorsal mesoderm

composition of the Organizer: VODICKA AND GERHART 121, 3505.

Dorsal wing

Dlw specifies dorsal wing identity in Drosophila: TIONG, NASH AND BENDER 121, 1649.

Dorsalization

Nodal-related signaling in mesoderm patterning: JONES, KUEHN, HOGAN, SMITH AND WRIGHT 121, 3651.

Dorsomedial lip

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

Dorsoventral axis

alteration of mesoderm formation at MBT: KINOSHITA AND ASASHIMA 121, 1581. embryonic expression of agouti: MILLAR, MILLER, STEVENS AND BARSH 121,

fertilization and egg cytoplasmic reorganisation: ROEGIERS, MCDOUGALL AND SARDET 121, 3457.

gratuitous localization of K10 mRNA: SERANO AND COHEN 121, 3013.

maternal Xwnt-8b in axial patterning: CUI, BROWN, MOON AND CHRISTIAN 121,

pattern in noggin-induced neural tissue:

KNECHT, GOOD, DAWID AND HARLAND 121, 1927.

Snake zymogen and activated forms: SMITH, GIORDANO, SCHWARTZ AND DELOTTO 121, 4127.

sog induces an ectopic axis: SCHMIDT, FRANCOIS, BIER AND KIMELMAN 121, 4319.

spiralian cell fate specification: MARTINDALE AND HENRY 121, 3175.

Dorsoventral wing

Dlw specifies dorsal wing identity in Drosophila: TIONG, NASH AND BENDER 121, 1649.

Dorsoventrality

control of dorsoventrality in leaves: WAITES AND HUDSON 121, 2143.

Dosage compensation

Caenorhabditis dosage compensation: HSU, CHUANG AND MEYER 121, 3323.

male-specific lethal-3 gene and dosage compensation in Drosophila: GORMAN. FRANKE AND BAKER 121, 463.

regulation of dosage compensation: BASHAW AND BAKER 121, 3245.

su(Hw) protein and dosage compensation: ROSEMAN, SWAN AND GEYER 121,

Drosophila

a sex-specific number of germ cells in embryos: POIRIE, NIEDERER AND STEINMANN-ZWICKY 121, 1867.

abnormal MOL genesis in fruitless flies: TAYLOR AND KNITTEL 121, 3079.

activation of neuroblast proliferation: DATTA 121, 1173.

adult morphogenesis in Drosophila: WEAVER AND WHITE 121, 4149.

adult requirements for exd: RAUSKOLB, SMITH, PEIFER AND WIESCHAUS 121,

an active repressor mimics a ftz mutant: JOHN, SMITH AND JAYNES 121, 1801.

apterous and neuronal pathfinding: LUNDGREN, CALLAHAN, THOR AND THOMAS 121, 1769.

bithorax regulation by gap genes in Drosophila: CASARES AND SANCHEZ-HERRERO 121, 1855.

brain development in Drosophila: THERIANOS, LEUZINGER, HIRTH, GOODMAN AND REICHERT 121, 3849. caudal regulation and function: SCHULZ

AND TAUTZ 121, 1023. cell cycle dependence of eve expression:

WEIGMANN AND LEHNER 121, 3713. cell rearrangement in ovary development:

GODT AND LASKI 121, 173. cell type specification in the Drosophila endoderm: TEPASS AND HARTENSTEIN

121 393

enc homeotic gene in Drosophila: MOHLER, MAHAFFEY, DEUTSCH AND VANI 121,

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121,

components of the frizzled signaling pathway: KRASNOW, WONG AND ADLER 121,

control of Drosophila adult pattern by extradenticle: GONZALEZ-CRESPO AND MORATA 121, 2117.

- cortical localization of pros at mitosis: SPANA AND DOE 121, 3187.
- dally, a putative integral membrane proteoglycan, affects cell division: NAKATO, FUTCH AND SELLECK 121, 3687.
- Dlw specifies dorsal wing identity in Drosophila: TIONG, NASH AND BENDER 121, 1649.
- dorsal gradients and mesoderm induction in Drosophila: MAGGERT, LEVINE AND FRASCH 121, 2107.
- dpp signaling requires schnurri: STAEHLING-HAMPTON, LAUGHON AND HOFFMANN 121, 3393.
- dual hermaphrodite role in *Drosophila*: PULTZ AND BAKER 121, 99.
- DWnt-4, a novel Drosophila Wnt gene: GRABA, GIESELER, ARAGNOL, LAURENTI, MARIOL, BERENGER, SAGNIER AND PRADEL 121, 209.
- E63 genes: ANDRES AND THUMMEL 121, 2667.
- eggshell defects and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023.
- en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL 121, 2265.
- engrailed and developmental compartments: TABATA, SCHWARTZ, GUSTAVSON, ALI AND KORNBERG 121, 3359.
- engrailed and wing morphogenesis: GUILLEN, MULLOR, CAPDEVILA, SANCHEZ-HERRERO, MORATA AND GUERRERO 121, 3447.
- eve as a morphogen for single cell rows: FUJIOKA, JAYNES AND 121, 4371.
- evolution of the insect CNS: BROADUS AND DOE 121, 3989.
- evolutionary conservation of nanos: CURTIS, APFELD AND LEHMANN 121, 1899.
- expression of orphan nuclear receptor tailless in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.
- FGFR regulation by C/EBP in cell migration: MURPHY, LEE, ANDREWS, SHILO AND MONTELL 121, 2255.
- founder cells and *Drosophila* myogenesis: RUSHTON, DRYSDALE, ABMAYR, MICHELSON AND BATE 121, 1979.
- frizzled and pattern formation in *Drosophila* eye: ZHENG, ZHANG AND CARTHEW 121, 3045.
- function of Polycomb in mice and flies: MULLER, GAUNT AND LAWRENCE 121, 2847.
- functional analysis of *Drosophila* Deltex: MATSUNO, DIEDERICH, GO, BLAUMUELLER AND ARTAVANIS-TSAKONAS 121, 2633.
- functions of E74 during Drosophila metamorphosis: FLETCHER, BURTIS, HOGNESS AND THUMMEL 121, 1455.
- furrow progression and ommatidial polarity: STRUTT AND MLODZIK 121, 4247.
- genetic analysis of α_{PS1}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM, FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.
- genetic hierarchy of *Drosophila* wing vein development: STURTEVANT AND BIER 121, 785.
- gonadal precursor cells in *Drosophila*: BOYLE AND DINARDO 121. 1815.

- groucho and hedgehog regulate engrailed: DE CELIS AND RUIZ-GOMEZ 121, 3467.
- hedgehog in Drosophila imaginal discs: FELSENFELD AND KENNISON 121, 1.
- homeotic gene regulation of tracheal development: CHIANG, YOUNG AND BEACHY 121, 3901.
- homeotic regulation of cnn: HEUER, LI AND KAUFMAN 121, 3861.
- hormonal induction of Dopa decarboxylase in Drosophila: HODGETTS, CLARK, O'KEEFE, SCHOULS, CROSSGROVE, GUILD AND VON KALM 121, 3913.
- Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957.
- Hox genes and segment identity: CASTELLI-GAIR AND AKAM 121, 2973.
- innervation is essential for male muscle: CURRIE AND BATE 121, 2549.
- K10 mRNA localization: SERANO AND COHEN 121, 3809.
- lats gene encodes a putative protein kinase: XU, WANG, ZHANG, STEWART AND YU 121, 1053.
- male-specific lethal-3 gene and dosage compensation in *Drosophila*: GORMAN, FRANKE AND BAKER 121, 463.
- mesodermal patterning in *Drosophila*:
 BORKOWSKI, BROWN AND BATE 121,
 4183.
- midline glial cell death: SONNENFELD AND JACOBS 121, 569.
- migration of *Drosophila* primordial germ cells:

 JAGLARZ AND HOWARD 121, 3495.
- mitotic delay dependent survival: RUDEN AND JACKLE 121, 63.
- molecular phenotypes of *E74* phenotypes: FLETCHER AND THUMMEL **121**, 1411.
- morphogenetic furrow and polarity in Drosophila eye: CHANUT AND HEBERLEIN 121, 4085.
- morphogenetic furrow and tissue polarity: MA
 AND MOSES 121, 2279.
- muscle induction in *Drosophila*: BAKER AND SCHUBIGER 121, 1387.
- myoblast fusion and rost gene expression in Drosophila: PAULULAT, BURCHARD AND RENKAWITZ-POHL 121, 2611.
- myosin II in oogenesis and early cleavage: WHEATLEY, KULKARNI AND KARESS 121, 1937.
- neural patterning by hedgehog: LAI, EKKER, BEACHY AND MOON 121, 2349.
- neurogenic genes control *l'sc* and mesectoderm: MARTIN-BERMUDO, CARMENA AND JIMENEZ 121, 219.
- Notch and wingless in the fly wing: RULIFSON AND BLAIR 121, 2813. numb autonomously specifies cell fate: SPANA, KOPCZYNSKI, GOODMAN
- AND DOE 121, 3489. orthodenticle in *Drosophila* head development: ROYET AND FINKELSTEIN 121, 3561.
- ovarian follicle stem cells: MARGOLIS AND SPRADLING 121, 3797.
- pelle activation at the plasma membrane: GALINDO, EDWARDS, GILLESPIE AND WASSERMAN 121, 2209.
- pelota meiotic G₂/M arrest: EBERHART AND WASSERMAN 121, 3477.
- planar polarity in *Drosophila*: WEHRLI AND TOMLINSON 121, 2451.
- PNS lineages in *Drosophila*: BREWSTER AND BODMER 121, 2923.

- Polycomb-binding sites in the BX-C: CHIANG, O'CONNOR, PARO, SIMON AND BENDER 121, 1681.
- polyhomeotic as a target of engrailed: SERRANO, BROCK, DEMERET, DURA, RANDSHOLT, KORNBERG AND MASCHAT 121, 1691.
- positioning of SNS invagination centers: GONZALEZ-GAITAN AND JACKLE 121, 2313.
- proximal-distal pattern in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN 121 589
- Rac genes: HARDEN, LOH, CHIA AND LIM
- regulation of ftz by runt and hairy: TSAI AND GERGEN 121, 453.
- regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067.
- regulation of dosage compensation: BASHAW AND BAKER 121, 3245.
- regulation of gene expression in the CNS: CUI AND DOE 121, 3233.
- regulation of oskar translation: RONGO, GAVIS AND LEHMANN 121, 2737.
- regulation of S phase by cyclin E: RICHARDSON, O'KEEFE, MARTY AND SAINT 121, 3371.
- regulation of the *ci* gene: SCHWARTZ, LOCKE, NISHIDA AND KORNBERG 121, 1625.
- regulatory interactions between cut and poxn: VERVOORT, ZINK, PUJOL, VICTOIR, DUMONT, GHYSEN AND DAMBLY-CHAUDIERE 121, 3111.
- repo and glia function: HALTER, URBAN, RICKERT, NER, ITO, TRAVERS AND TECHNAU 121, 317.
- requirements for *E(spl)bHLH* expression: JENNINGS, DE CELIS, DELIDAKIS, PREISS AND BRAY **121**, 3745.
- rhabdomere assembly requires rhodopsin: KUMAR AND READY **121**, 4359.
- role of Awh in imaginal development: CURTISS AND HEILIG 121, 3819.
- role of *Drosophila* Bag of marbles protein: MCKEARIN AND OHLSTEIN **121**, 2937. role of *fj* in proximal-distal growth: VILLANO AND KATZ **121**, 2767.
- role of proneural genes in *Drosophila*: GIANGRANDE **121**, 429.
- segmental patterning of the mesoderm: LAWRENCE, BODMER AND VINCENT 121, 4303.
- sequential gene activation by ecdysone: HUET, RUIZ AND RICHARDS 121, 1195.
- Serrate activates Notch: GU, HUKRIEDE AND FLEMING 121, 855.
- seven-up function and ras signaling: KRAMER, WEST AND HIROMI 121, 1361.
- seven-up requires Ras activation: BEGEMANN, MICHON, VOORN, WEPF AND MLODZIK 121, 225.
- shs acts in *Drosophila* eye development: TREISMAN, LAI AND RUBIN 121, 2835.
 Snake zymogen and activated forms: SMITH,
- GIORDANO, SCHWARTZ AND DELOTTO 121, 4127. soma-germline interactions in oogenesis:
- NAGOSHI, PATTON, BAE AND GEYER 121, 579.
- su(Hw) protein and dosage compensation:

- ROSEMAN, SWAN AND GEYER 121, 3573.
- targeted ablation of CNS glia in *Drosophila*: HIDALGO, URBAN AND BRAND 121, 3703.
- the proneural gene for chordotonal organs and photoreceptors: JARMAN, SUN, JAN AND JAN 121, 2019.
- translational control of *oskar*: MARKUSSEN, MICHON, BREITWIESER AND EPHRUSSI **121**, 3723.
- tsh regulation by homeotic genes: MCCORMICK, CORE, KERRIDGE AND SCOTT 121, 2799.
- ventral veinless in Drosophila development: DE CELIS, LLIMARGAS AND CASANOVA 121, 3405.
- vir is a regulator of Sxl in Drosophila: HILFIKER, AMREIN, DUBENDORFER, SCHNEITER AND NOTHIGER 121, 4017. wg inhibits the morphogenetic furrow:
- TREISMAN AND RUBIN 121, 3519.
 Wingless function in the leg disc: WILDER
- AND PERRIMON 121, 477.

 wingless and myogenesis: BAYLIES,
- MARTINEZ ARIAS AND BATE 121, 3829.
- wingless induces transdetermination: MAVES AND SCHUBIGER 121, 1263.
- Wingless regulation in *Drosophila*: MANOUKIAN, YOFFE, WILDER AND PERRIMON 121, 4037.
- XNkx-2.3, a second vertebrate homologue of tinman: EVANS, YAN, MURILLO, PONCE AND PAPALOPULU 121, 3889.
- yan function in division versus differentiation: ROGGE, GREEN, URANO, HORN-SABAN, MLODZIK, SHILO, HARTENSTEIN AND BANERJEE 121, 3947

Drosophila K10 gene

K10 mRNA localization: SERANO AND COHEN 121, 3809.

Drosophila oogenesis

gratuitous localization of K10 mRNA: SERANO AND COHEN 121, 3013.

Drosophila short gastrulation

sog induces an ectopic axis: SCHMIDT, FRANCOIS, BIER AND KIMELMAN 121, 4319.

Ducts

developmental biology of the pancreas: SLACK 121, 1569.

Duodenum

homeoprotein expression in pancreas: GUZ, MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121, 11.

Dye microinjection

zebrafish neural fate maps: WOO AND FRASER 121, 2595.

E(spl)

requirements for *E(spl)bHLH* expression: JENNINGS, DE CELIS, DELIDAKIS, PREISS AND BRAY **121**, 3745.

E-cadherin

β-catenin and mouse development at gastrulation: HAEGEL, LARUE, OHSUGI, FEDOROV, HERRENKNECHT AND KEMLER 121, 3529.

E74

functions of E74 during Drosophila metamorphosis: FLETCHER, BURTIS, HOGNESS AND THUMMEL 121, 1455. molecular phenotypes of E74 phenotypes: FLETCHER AND THUMMEL 121, 1411.

Early-late gene

sequential gene activation by ecdysone: HUET, RUIZ AND RICHARDS 121, 1195.

Ecdysone

- Drosophila E63 genes: ANDRES AND THUMMEL 121, 2667.
- functions of E74 during Drosophila metamorphosis: FLETCHER, BURTIS, HOGNESS AND THUMMEL 121, 1455.
- molecular phenotypes of *E74* phenotypes: FLETCHER AND THUMMEL **121**, 1411. sequential gene activation by ecdysone:
- HUET, RUIZ AND RICHARDS 121, 1195.

ECM remodeling

developmental expression of mouse stromelysin-3 RNA: LEFEBVRE, REGNIER, CHENARD, WENDLING, CHAMBON, BASSET AND P. 121, 947.

Ectoderm

- cDNA libraries from gastrulating mouse embryos: HARRISON, DUNWOODIE, ARKELL, LEHRACH AND BEDDINGTON 121, 2479.
- ectoderm differentiation in sea urchins: WIKRAMANAYAKE, BRANDHORST AND KLEIN 121, 1497.
- neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER

eed

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

Efferen

peripheral projections and central neurogenesis: BECKER, BERLINER, NITABACH, GAN AND MACAGNO 121, 359.

EGF

- EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE 121, 299.
- Notch and wingless in the fly wing: RULIFSON AND BLAIR 121, 2813.
- proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.
- TGFα induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.

EGF-like repeats

mouse delta-like gene: BETTENHAUSEN, HRABE DE ANGELIS, SIMON, GUENET AND GOSSLER 121, 2407.

EGFR

- EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE
- genetic hierarchy of *Drosophila* wing vein development: STURTEVANT AND BIER 121, 785.

Egg activation

mouse egg activation: AYABE, KOPF AND SCHULTZ 121, 2233.

Egg cylinder

neural fate of distal epiblast: QUINLAN, WILLIAMS, TAN AND TAM 121, 87.

Eggshell defects

and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023.

Embryo culture

CSF-1 and preimplantation development: BHATNAGAR, PAPAIOANNOU AND BIGGERS 121, 1333.

Embryogenesis

- an active repressor mimics a ftz mutant: JOHN, SMITH AND JAYNES 121, 1801.
- brain development in the grasshopper: BOYAN, THERIANOS, WILLIAMS AND REICHERT 121, 75.
- connective tissue homeobox genes: OLIVER, WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN, ZIPURSKY AND GRUSS 121, 693.
- FGF-3 in chick development: MAHMOOD, KIEFER, GUTHRIE, DICKSON AND MASON 121, 1399.
- founder cells and *Drosophila* myogenesis: RUSHTON, DRYSDALE, ABMAYR, MICHELSON AND BATE 121, 1979.
- mesodermal patterning in *Drosophila*:
 BORKOWSKI, BROWN AND BATE 121,
- midkine and HB-GAM in mouse embryos: MITSIADIS, SALMIVIRTA, MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN AND THESLEFF 121, 37.
- radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.
- TGFβ1 controls endothelial differentiation and haematopoiesis: DICKSON, MARTIN, COUSINS, KULKARNI, KARLSSON AND AKHURST 121, 1845.
- yan function in division versus differentiation: ROGGE, GREEN, URANO, HORN-SABAN, MLODZIK, SHILO, HARTENSTEIN AND BANERJEE 121, 3947.

Embryonic axis

cell autonomy of fth in axial mesoderm: HALPERN, THISSE, HO, THISSE, RIGGLEMAN, TREVARROW, WEINBERG, POSTLETHWAIT AND KIMMEL 121, 4257.

Embryonic implantation

developmental expression of mouse stromelysin-3 RNA: LEFEBVRE, REGNIER, CHENARD, WENDLING, CHAMBON, BASSET AND P. 121, 947.

Embryonic lung development

inhibition of PDGF-A translation: SOUZA, KULISZEWSKI, WANG, TSEU, TANSWELL AND POST 121, 2559.

Embryonic pattern formation

hunchback expression in *Tribolium*: WOLF, SOMMER, SCHRODER, GLASER AND TAUTZ **121**, 4227.

Embryonic stem (ES) cell

- β-catenin and mouse development at gastrulation: HAEGEL, LARUE, OHSUGI, FEDOROV, HERRENKNECHT AND KEMLER 121, 3529.
- chimeric mice with excess neuropilin: KITSUKAWA, SHIMONO, KAWAKAMI, KONDOH AND FUJISAWA 121, 4309.
- transgene methylation in embryos and ES cells: WENG, MAGNUSON AND STORB 121, 2853

EMS cell

response to induction: GOLDSTEIN 121, 1227.

4420 Subject Index

Endo16

vegetal plate specification in sea urchins: RANSICK AND DAVIDSON 121, 3215.

Endocardium

cloche required by endothelial and blood lineages: STAINIER, WEINSTEIN, DETRICH III, ZON AND FISHMAN 121, 3141.

Endoderm

cDNA libraries from gastrulating mouse embryos: HARRISON, DUNWOODIE, ARKELL, LEHRACH AND BEDDINGTON 121, 2479.

cell type specification in the *Drosophila* endoderm: TEPASS AND HARTENSTEIN **121**, 393.

in Xenopus cardiogenesis: NASCONE AND MERCOLA 121, 515.

induction of cardiac myogenesis: SCHULTHEISS, XYDAS AND LASSAR 121, 4203.

Endosperm

gametic imprinting and endosperm development: CHARLTON, KEEN, MERRIMAN, LYNCH, GREENLAND AND DICKINSON 121, 3089.

Endothelial cell

endothelial specific promoter: SCHLAEGER, QIN, FUJIWARA, MAGRAM AND SATO 121, 1089.

Endothelial differentiation

TGFβ1 controls endothelial differentiation and haematopoiesis: DICKSON, MARTIN, COUSINS, KULKARNI, KARLSSON AND AKHURST 121, 1845.

Endothelin

downstream effects of ET-B deletion: KAPUR, SWEETSER, DOGGETT, SIEBERT AND PALMITER 121, 3787.

engrailed

an active repressor mimics a ftz mutant: JOHN, SMITH AND JAYNES 121, 1801.

and wing morphogenesis: GUILLEN, MULLOR, CAPDEVILA, SANCHEZ-HERRERO, MORATA AND GUERRERO 121, 3447.

Drosophila engrailed and developmental compartments: TABATA, SCHWARTZ, GUSTAVSON, ALI AND KORNBERG 121, 3359.

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL 121, 2265.

genetic control of cerebellar patterning: MILLEN, HUI AND JOYNER 121, 3935. groucho and hedgehog regulate engrailed: DE CELIS AND RUIZ-GOMEZ 121, 3467.

neurogenic sublineage required for CNS segmentation in Annelids: RAMIREZ, WEDEEN, STUART, LANS AND WEISBLAT 121, 2091.

orthodenticle in *Drosophila* head development: ROYET AND FINKELSTEIN 121, 3561.

polyhomeotic as a target of engrailed: SERRANO, BROCK, DEMERET, DURA, RANDSHOLT, KORNBERG AND MASCHAT 121, 1691.

regulation of the ci gene: SCHWARTZ, LOCKE, NISHIDA AND KORNBERG 121, 1625.

Enhancer

anterior expression boundary of Hoxa-7: KNITTEL, KESSEL, KIM AND GRUSS 121, 1077. demethylation of a muscle-specific transgene: GRIESHAMMER, MCGREW AND ROSENTHAL 121, 2245.

epigenetic control of BLBP transcription: FENG AND HEINTZ 121, 1719.

Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957.

Hoxc-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4339.

regulatory sequences of proboscipedia: KAPOUN AND KAUFMAN 121, 2127.

Enteric nervous system

downstream effects of ET-B deletion: KAPUR, SWEETSER, DOGGETT, SIEBERT AND PALMITER 121, 3787.

Eph

Sek-1 and segmental patterning: XU, ALLDUS, HOLDER AND WILKINSON 121, 4005.

Epiblast

neural fate of distal epiblast: QUINLAN, WILLIAMS, TAN AND TAM 121, 87.

Epigenetic regulation

control of BLBP transcription: FENG AND HEINTZ 121, 1719.

Epithelial buckling

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

Epithelial-mesenchymal interaction

inhibition of PDGF-A translation: SOUZA, KULISZEWSKI, WANG, TSEU, TANSWELL AND POST 121, 2559.

Id disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121, 4237.

midkine and HB-GAM in mouse embryos: MITSIADIS, SALMIVIRTA, MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN AND THESLEFF 121, 37.

PTHrP impairs breast development: WYSOLMERSKI, MCCAUGHERN-CARUCCI, DAIFOTIS, BROADUS AND PHILBRICK 121, 3539.

Epithelium

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

Drosophila ovarian follicle stem cells: MARGOLIS AND SPRADLING 121, 3797.

planar polarity in *Drosophila*: WEHRLI AND TOMLINSON 121, 2451.

RA in regenerating limb blastema: VIVIANO, HORTON, MADEN AND BROCKES 121, 3753.

Equator

furrow progression and ommatidial polarity: STRUTT AND MLODZIK 121, 4247.

Equivalence group

retinal determination by Notch selection: AUSTIN, FELDMAN, IDA JR. AND CEPKO 121, 3637.

Erythropoiesis

development of GATA-1⁻ hematopoietic cells: PEVNY, LIN, D'AGATI, SIMON, ORKIN AND COSTANTINI 121, 163.

ES cell

T in morphogenetic movement: WILSON,

MANSON, SKARNES AND BEDDINGTON 121, 877.

ETS

functions of E74 during Drosophila metamorphosis: FLETCHER, BURTIS, HOGNESS AND THUMMEL 121, 1455. molecular phenotypes of E74 phenotypes:

FLETCHER AND THUMMEL 121, 1411.

Arabidopsis gynoecium structure: SESSIONS AND ZAMBRYSKI 121, 1519.

even-skipped

cell cycle dependence of eve expression: WEIGMANN AND LEHNER 121, 3713. eve as a morphogen for single cell rows:

FUJIOKA, JAYNES AND 121, 4371. regulation of gene expression in the CNS: CUI AND DOE 121, 3233.

segmental patterning of the mesoderm: LAWRENCE, BODMER AND VINCENT 121, 4303.

Evolution

amphioxus *Brachyury* genes: HOLLAND, KOSCHORZ, HOLLAND AND HERRMANN **121**, 4283.

duels in *Caenorhabditis* development: SCHNABEL **121**, 2219.

evolutionary conservation of *nanos*: CURTIS, APFELD AND LEHMANN **121**, 1899.

Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957. spiralian cell fate specification:

MARTINDALE AND HENRY 121, 3175.

Evx1

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

Explant culture

role for PNA-binding molecules in migration of avian trunk neural crest: KRULL, COLLAZO, FRASER AND BRONNER-FRASER 121, 3733.

Expression pattern

alkaline phosphatase and PGCs: MACGREGOR, ZAMBROWICZ AND SORIANO 121, 1487.

Extension

cell rearrangement in ovary development: GODT AND LASKI 121, 173.

External feature modeling

developmental expression of mouse stromelysin-3 RNA: LEFEBVRE, REGNIER, CHENARD, WENDLING, CHAMBON, BASSET AND P. 121, 947.

Extracellular matrix

control of cortical neuronal phenotype: FERRI AND LEVITT 121, 1151.

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

integrin α₂β₁ in developing retina: BRADSHAW, MCNAGNY, GERVIN, CANN, GRAF AND CLEGG **121**, 3593.

extradenticle

control of *Drosophila* adult pattern by extradenticle: GONZALEZ-CRESPO AND MORATA 121, 2117.

adult requirements for exd: RAUSKOLB, SMITH, PEIFER AND WIESCHAUS 121, 3663. Extraembryonic development

alkaline phosphatase and PGCs: MACGREGOR, ZAMBROWICZ AND SORIANO 121, 1487.

Extraembryonic tissue

H19 imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121 4195

Eye

expression of orphan nuclear receptor tailless in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.

FGF-induced lens differentiation in vivo: ROBINSON, OVERBEEK, VERRAN, GRIZZLE, STOCKARD, FRIESEL, MACIAG AND THOMPSON 121, 505.

frizzled and pattern formation in Drosophila eye: ZHENG, ZHANG AND CARTHEW 121, 3045.

GSK3β and ectodermal cell fate determination: ITOH, TANG, NEEL AND SOKOL 121, 3979.

morphogenetic furrow and polarity in Drosophila eye: CHANUT AND HEBERLEIN 121, 4085.

mouse eye homeobox gene: OLIVER, MAILHOS, WEHR, COPELAND, JENKINS AND GRUSS 121, 4045.

Pax proteins and eye development: MACDONALD, BARTH, XU, HOLDER, MIKKOLA AND WILSON 121, 3267.

planar polarity in *Drosophila*: WEHRLI AND TOMLINSON 121, 2451.

rhabdomere assembly requires rhodopsin: KUMAR AND READY 121, 4359.

seven-up requires Ras activation: BEGEMANN, MICHON, VOORN, WEPF AND MLODZIK 121, 225.

shs acts in *Drosophila* eye development: TREISMAN, LAI AND RUBIN 121, 2835.

TGFα induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.

wg inhibits the morphogenetic furrow: TREISMAN AND RUBIN 121, 3519.

yan function in division versus differentiation: ROGGE, GREEN, URANO, HORN-SABAN, MLODZIK, SHILO, HARTENSTEIN AND BANERJEE 121, 3947

Eye imaginal disc

regulation of S phase by cyclin E: RICHARDSON, O'KEEFE, MARTY AND SAINT 121, 3371.

Eye morphogenesis

genetic analysis of α_{PS1}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM, FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.

Fasciculation

brain development in the grasshopper: BOYAN, THERIANOS, WILLIAMS AND REICHERT 121, 75.

fass

radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

Fate map

composition of the Organizer: VODICKA AND GERHART 121, 3505.

the Xenopus laevis tail-forming region: TUCKER AND SLACK 121, 249. tissue progenitors in zebrafish gastrula: SHIH AND FRASER 121, 2755.

zebrafish neural fate maps: WOO AND FRASER 121, 2595.

Feedback regulation

TRA-2A directs hermaphrodite development: KUWABARA AND KIMBLE 121, 2995.

Ferret

neuronal migration in the cerebral cortex: O'ROURKE, SULLIVAN, KAZNOWSKI, JACOBS AND MCCONNELL 121, 2165.

Fertilization

and egg cytoplasmic reorganisation: ROEGIERS, MCDOUGALL AND SARDET 121, 3457.

mouse egg activation: AYABE, KOPF AND SCHULTZ 121, 2233.

mouse sperm capacitation: VISCONTI, BAILEY, MOORE, PAN, OLDS-CLARKE AND KOPF 121, 1129.

nuclear Ca²⁺-releasing activity in embryos: KONO, CARROLL, SWANN AND WHITTINGHAM 121, 1123.

regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139.

sperm injection: KIMURA AND YANAGIMACHI 121, 2397.

sperm-induced Ca²⁺ rises at metaphase: JONES, CARROLL, MERRIMAN, WHITTINGHAM AND KONO **121**, 3259.

eFGF

role of FGF activity in axis formation: GRIFFIN, PATIENT AND HOLDER 121, 2983.

FGF

and noggin neural induction and patterning: LAMB AND HARLAND 121, 3627.

dominant negative FGFR1 in the lens: ROBINSON, MACMILLAN-CROW, THOMPSON AND OVERBEEK 121, 3959.

dorsal activity in Xenopus eggs: HOLOWACZ AND ELINSON 121, 2789.

FGF receptor

dominant negative FGFR1 in the lens: ROBINSON, MACMILLAN-CROW, THOMPSON AND OVERBEEK 121,

FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

FGFR regulation by C/EBP in cell migration: MURPHY, LEE, ANDREWS, SHILO AND MONTELL 121, 2255.

mesoderm induction by soluble Vg1: KESSLER AND MELTON 121, 2155.

translational control of *Xenopus* FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI **121**, 1775.

FGF-1

FGF-induced lens differentiation in vivo: ROBINSON, OVERBEEK, VERRAN, GRIZZLE, STOCKARD, FRIESEL, MACIAG AND THOMPSON 121, 505.

Fgf-3

in chick development: MAHMOOD, KIEFER, GUTHRIE, DICKSON AND MASON 121, 1399.

FGF-4

ld disrupts the SHH/FGF-4 feedback loop:

HARAMIS, BROWN AND ZELLER 121, 4237.

Fgf-4

development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA-BELMONTE, DUPREZ AND WOLPERT 121, 4329.

fgf-4

relation of formins to AER and ZPA: CHAN, WYNSHAW-BORIS AND LEDER 121, 3151.

FGF-6

MRF4 disruption causes myotome and rib defects: PATAPOUTIAN, YOON, MINER, WANG, STARK AND WOLD 121, 3347.

GF-8

Id disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121, 4237

Fgf8

expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439.

isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

Fibroblast

in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

Fibroblast growth factor

-induced lens differentiation in vivo: ROBINSON, OVERBEEK, VERRAN, GRIZZLE, STOCKARD, FRIESEL, MACIAG AND THOMPSON 121, 505.

FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

Fgf8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439. in lens development: CHOW, ROUX,

ROGHANI, PALMER, RIFKIN, MOSCATELLI AND LANG 121, 4383.

Fibronectin

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

Finite element methods

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

floating head

cell autonomy of fth in axial mesoderm: HALPERN, THISSE, HO, THISSE, RIGGLEMAN, TREVARROW, WEINBERG, POSTLETHWAIT AND KIMMEL 121, 4257.

Floor plate

axial tissues induce myogenic bHLH genes: MUNSTERBERG AND LASSAR 121, 651.

Floral homeotic mutant

LEUNIG regulates AGAMOUS expression: LIU AND MEYEROWITZ 121, 975.

Flower development

Arabidopsis gynoecium structure: SESSIONS AND ZAMBRYSKI 121, 1519.

floricaula in single cell layers activates downstream genes: HANTKE, CARPENTER AND COEN 121, 27. in vivo and in vitro functions of the DEFICIENS gene: ZACHGO, SILVA, MOTTE, TROBNER, SAEDLER AND SCHWARZ-SOMMER 121, 2861.

Follicle

Drosophila ovarian follicle stem cells: MARGOLIS AND SPRADLING 121, 3797

Follistatin

hedgehog gene family of Xenopus: EKKER, MCGREW, LAI, LEE, VON KESSLER, MOON AND BEACHY 121, 2337.

mesoderm induction by soluble Vg1: KESSLER AND MELTON 121, 2155.

MRF4 disruption causes myotome and rib defects: PATAPOUTIAN, YOON, MINER, WANG, STARK AND WOLD 121, 3347.

Forebrain

expression of orphan nuclear receptor tailless in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.

longitudinal organization of the brain: SHIMAMURA, HARTIGAN, MARTINEZ, PUELLES AND RUBENSTEIN 121, 3923.

maternal Xwnt-8b in axial patterning: CUI, BROWN, MOON AND CHRISTIAN 121,

mouse eye homeobox gene: OLIVER, MAILHOS, WEHR, COPELAND, JENKINS AND GRUSS 121, 4045.

zebrafish nk2.2 gene: BARTH AND WILSON 121, 1755.

Founder cell

and Drosophila myogenesis: RUSHTON, DRYSDALE, ABMAYR, MICHELSON AND BATE 121, 1979.

wingless and myogenesis: BAYLIES, MARTINEZ ARIAS AND BATE 121, 3829

four-jointed

role of fj in proximal-distal growth: VILLANO AND KATZ 121, 2767.

frizzled

and pattern formation in *Drosophila* eye: ZHENG, ZHANG AND CARTHEW 121, 3045.

components of the *frizzled* signaling pathway: KRASNOW, WONG AND ADLER 121, 4095.

fruitless

abnormal MOL genesis in fruitless flies: TAYLOR AND KNITTEL 121, 3079.

FTZ-F1

regulation of ftz by runt and hairy: TSAI AND GERGEN 121, 453.

fura-2

BDNF regulation by GABA: BERNINGER, MARTY, ZAFRA, DA PENHA BERZAGHI, THOENEN AND LINDHOLM 121, 2327.

Furrow progression

and ommatidial polarity: STRUTT AND MLODZIK 121, 4247.

fushi tarazu

an active repressor mimics a fiz mutant: JOHN, SMITH AND JAYNES 121, 1801.

regulation of ftz by runt and hairy: TSAI AND GERGEN 121, 453.

Fusion defects in mutants

myoblast fusion and rost gene expression in Drosophila: PAULULAT, BURCHARD AND RENKAWITZ-POHL 121, 2611.

Fusom

role of *Drosophila* Bag of marbles protein: MCKEARIN AND OHLSTEIN 121, 2937.

GABAA receptors

BDNF regulation by GABA: BERNINGER, MARTY, ZAFRA, DA PENHA BERZAGHI, THOENEN AND LINDHOLM 121, 2327.

GAL

targeted ablation of CNS glia in *Drosophila*: HIDALGO, URBAN AND BRAND 121, 3703.

Galactocerebroside

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

B-Galactosidase

alkaline phosphatase and PGCs: MACGREGOR, ZAMBROWICZ AND SORIANO 121, 1487.

Gametic imprinting

and endosperm development: CHARLTON, KEEN, MERRIMAN, LYNCH, GREENLAND AND DICKINSON 121, 3089.

parthenote stem cell defects: NEWMAN-SMITH AND WERB 121, 2069.

Gangliogenesis

neurogenic sublineage required for CNS segmentation in Annelids: RAMIREZ, WEDEEN, STUART, LANS AND WEISBLAT 121, 2091.

Ganglion cell

retinal determination by Notch selection: AUSTIN, FELDMAN, IDA JR. AND CEPKO 121, 3637.

Gap gene

bithorax regulation by gap genes in Drosophila: CASARES AND SANCHEZ-HERRERO 121, 1855.

caudal regulation and function: SCHULZ AND TAUTZ 121, 1023.

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067.

Gap junction

blockade in early Xenopus embryos: PAUL, YU, BRUZZONE, GIMLICH AND GOODENOUGH 121, 371.

Gastrula

composition of the Organizer: VODICKA AND GERHART 121, 3505.

astrulation

cDNA libraries from gastrulating mouse embryos: HARRISON, DUNWOODIE, ARKELL, LEHRACH AND BEDDINGTON 121, 2479.

cell autonomy of fth in axial mesoderm: HALPERN, THISSE, HO, THISSE, RIGGLEMAN, TREVARROW, WEINBERG, POSTLETHWAIT AND KIMMEL 121, 4257.

early placental development in mouse embryos: DOWNS AND GARDNER 121,

Fgf8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439.

goosecoid -null mice: RIVERA-PEREZ, MALLO, GENDRON-MAGUIRE, GRIDLEY AND BEHRINGER 121, 3005.

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

IMZ stiffness in Xenopus: MOORE, KELLER AND KOEHL 121, 3131.

induction of notochord behavior and

differentiation: DOMINGO AND KELLER 121, 3311.

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

neural fate of distal epiblast: QUINLAN, WILLIAMS, TAN AND TAM 121, 87.

Nodal-related signaling in mesoderm patterning: JONES, KUEHN, HOGAN, SMITH AND WRIGHT 121, 3651.

Otx2 and neuroectoderm specification: ACAMPORA, MAZAN, LALLEMAND, AVANTAGGIATO, MAURY, SIMEONE AND BRULET 121, 3279.

PDGF in *Xenopus* gastrulation: ATALIOTIS, SYMES, CHOU, HO AND MERCOLA 121, 3099.

role of FGF activity in axis formation: GRIFFIN, PATIENT AND HOLDER 121, 2983.

T in morphogenetic movement: WILSON, MANSON, SKARNES AND BEDDINGTON 121, 877.

tissue progenitors in zebrafish gastrula: SHIH AND FRASER 121, 2755.

zebrafish neural fate maps: WOO AND FRASER 121, 2595.

GATA factors

development of GATA-1⁻ hematopoietic cells: PEVNY, LIN, D'AGATI, SIMON, ORKIN AND COSTANTINI **121**, 163.

GATA-4 and endoderm differentiation: SOUDAIS, BIELINSKA, HEIKINHEIMO, MACARTHUR, NARITA, SAFFITZ, SIMON, LEIDEN AND WILSON 121, 3877.

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887.

Gel swelling

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

Gene activation

sequential gene activation by ecdysone: HUET, RUIZ AND RICHARDS 121, 1195.

Gene conversion

transcriptional repression in germ cells: O'NEILL AND ARTZT 121, 561.

Gene dosage

resistance to RA induced limb defects in RXRα^{-/-} mice: SUCOV, IZPISUA-BELMONTE, GANAN AND EVANS 121, 3997.

Gene expression

apoptotic death in lurcher Purkinje cells: NORMAN, FENG, CHENG, GUBBAY, CHAN AND HEINTZ 121, 1183.

ascidian labial group Hox gene: KATSUYAMA, WADA, YASUGI AND SAIGA 121, 3197.

Caenorhabditis dosage compensation: HSU, CHUANG AND MEYER 121, 3323.

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121, 3549.

genetic control of cerebellar patterning: MILLEN, HUI AND JOYNER 121, 3935.

goosecoid and lim1 expression and axis duplication in zebrafish: TOYAMA, O'CONNELL, WRIGHT, KUEHN AND DAWID 121, 383

haematopoietic development: GUIMARES,

- BAZAN, ZLOTNIK, WILES, GRIMALDI, LEE AND MCCLANAHAN 121, 3335.
- in preimplantation mouse embryo: WORRAD, TURNER AND SCHULTZ 121, 2949.
- in vivo and in vitro functions of the DEFICIENS gene: ZACHGO, SILVA, MOTTE, TROBNER, SAEDLER AND SCHWARZ-SOMMER 121, 2861.
- LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121, 4117.
- male-specific lethal-3 gene and dosage compensation in *Drosophila*: GORMAN, FRANKE AND BAKER **121**, 463.
- molecular cloning of AP-2: MOSER, IMHOF, PSCHERER, BAUER, AMSELGRUBER, SINOWATZ, HOFSTADTER, SCHULE AND BUETTNER 121, 2779.
- su(Hw) protein and dosage compensation: ROSEMAN, SWAN AND GEYER 121, 3573.
- transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887.

Gene knock-out

alkaline phosphatase and PGCs: MACGREGOR, ZAMBROWICZ AND SORIANO 121, 1487.

Gene regulation

- Cis-regulatory control of the SM50 gene: MAKABE, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1957.
- groucho and hedgehog regulate engrailed: DE CELIS AND RUIZ-GOMEZ 121, 3467. homeotic gene regulation of tracheal
- homeotic gene regulation of tracheal development: CHIANG, YOUNG AND BEACHY 121, 3901.

 molecular phenotypes of *E74* phenotypes:
- FLETCHER AND THUMMEL 121, 1411.

Gene targeting

- CRABPI and CRABPII knockout: LAMPRON, ROCHETTE-EGLY, GORRY, DOLLE, MARK, LUFKIN, LEMEUR AND CHAMBON 121, 539.
- Pax-2 required for urogenital development: TORRES, GOMEZ-PARDO, DRESSLER AND GRUSS 121, 4057.

Genetic mosaics

- cortex cell dispersion patterns in trangenic mosaics: TAN, FAULKNER-JONES, BREEN, WALSH, BERTRAM AND REESE 121, 1029.
- vir is a regulator of Sxl in Drosophila: HILFIKER, AMREIN, DUBENDORFER, SCHNEITER AND NOTHIGER 121, 4017.

Genital ridge

expression of *Sry*: HACKER, CAPEL, GOODFELLOW AND LOVELL-BADGE 121, 1603.

Genomic imprinting

gametic imprinting and endosperm development: CHARLTON, KEEN, MERRIMAN, LYNCH, GREENLAND AND DICKINSON 121, 3089.

Germ cell

- a sex-specific number of germ cells in embryos: POIRIE, NIEDERER AND STEINMANN-ZWICKY 121, 1867.
- chimerism with mouse male fetal germ cells: KATO AND TSUNODA 121, 779. mesoderm production in mice: FAUST,

- SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.
- role of *Drosophila* Bag of marbles protein: MCKEARIN AND OHLSTEIN 121, 2937.
- transcriptional repression in germ cells: O'NEILL AND ARTZT 121, 561.

Germline

- a sex-specific number of germ cells in embryos: POIRIE, NIEDERER AND STEINMANN-ZWICKY 121, 1867.
- mes-I and germ-cell fate in Caenorhabditis: STROME, MARTIN, SCHIERENBERG AND PAULSEN 121, 2961.

Germ plasm

- regulation of *oskar* translation: RONGO, GAVIS AND LEHMANN **121**, 2737.
- translational control of *oskar*: MARKUSSEN, MICHON, BREITWIESER AND EPHRUSSI **121**, 3723.

Glands

submucosal gland development and morphogenesis: ENGELHARDT, SCHLOSSBERG AND YANKASKAS AND DUDUS 121, 2031.

Glia

- brain development in *Drosophila*: THERIANOS, LEUZINGER, HIRTH, GOODMAN AND REICHERT 121, 3849.
- brain development in the grasshopper: BOYAN, THERIANOS, WILLIAMS AND REICHERT 121, 75.
- repo and glia function: HALTER, URBAN, RICKERT, NER, ITO, TRAVERS AND TECHNAU 121, 317.
- targeted ablation of CNS glia in *Drosophila*: HIDALGO, URBAN AND BRAND 121, 3703.

Gliogenesis

role of proneural genes in *Drosophila*: GIANGRANDE **121**, 429.

glp-1

DSL protein structure/function: FITZGERALD AND GREENWALD 121, 4275.

Glucagon

developmental biology of the pancreas: SLACK 121, 1569.

Glycogen store

LIFR mutation results in perinatal death:
WARE, HOROWITZ, RENSHAW, HUNT,
LIGGITT, KOBLAR, GLINIAK,
MCKENNA, PAPAYANNOPOULOU,
THOMA, CHENG, DONOVAN,
PESCHON, BARTLETT, WILLIS 121,
1283.

Glycogen synthase kinase

GSK3β and ectodermal cell fate determination: ITOH, TANG, NEEL AND SOKOL 121, 3979

Glycosaminoglycans

sulphated proteoglycans in kidney development: DAVIES, LYON, GALLAGHER AND GARROD 121, 1507.

GMC

cortical localization of pros at mitosis: SPANA AND DOE 121, 3187.

Godzilla mutant

mitotic delay dependent survival: RUDEN AND JACKLE 121, 63.

gollum

radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

Gonad formation

gonadal precursor cells in *Drosophila*: BOYLE AND DINARDO 121, 1815.

Gonadogenesis

migration of *Drosophila* primordial germ cells: JAGLARZ AND HOWARD 121, 3495.

eonsecoid

- and lim1 expression and axis duplication in zebrafish: TOYAMA, O'CONNELL, WRIGHT, KUEHN AND DAWID 121, 383
- induction of anterior neurectoderm: BLITZ AND CHO 121, 993.
- knockout: YAMADA, MANSOURI, TORRES, STUART, BLUM, SCHULTZ, DE ROBERTIS AND GRUSS 121, 2917.
- mesodermal patterning by *Brachyury* and *Pintallavis*: O'REILLY, SMITH AND CUNLIFFE **121**, 1351.
- -null mice: RIVERA-PEREZ, MALLO, GENDRON-MAGUIRE, GRIDLEY AND BEHRINGER 121, 3005.

GPI

Lazarillo: a neuronal GPI-linked lipocalin: GANFORNINA, SANCHEZ AND BASTIANI 121, 123.

Gradient

- dorsal gradients and mesoderm induction in Drosophila: MAGGERT, LEVINE AND FRASCH 121, 2107.
- head formation in *Hydra*: TECHNAU AND HOLSTEIN 121, 1273.
- orthodenticle in *Drosophila* head development: ROYET AND FINKELSTEIN 121, 3561.

Grasshopper

- brain development in the grasshopper: BOYAN, THERIANOS, WILLIAMS AND REICHERT 121, 75.
- expression pattern and function of Lazarillo: SANCHEZ, GANFORNINA AND BASTIANI 121, 135.
- Lazarillo: a neuronal GPI-linked lipocalin: GANFORNINA, SANCHEZ AND BASTIANI 121, 123.

groucho

and hedgehog regulate engrailed: DE CELIS AND RUIZ-GOMEZ 121, 3467.

Growth

HGF/SF in mammary development: NIRANJAN, BULUWELA, YANT, PERUSINGHE, ATHERTON, PHIPPARD, DALE, GUSTERSON AND KAMALATI 121, 2897.

Growth cone

tyrosine phosphatases in axonogenesis: STOKER, GEHRIG, HAJ AND BAY 121, 1833.

Growth control

proximal-distal pattern in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN 121, 589.

Growth factor

- anti-dorsalizing morphogenetic protein: MOOS JR., WANG AND KRINKS 121, 4293.
- control of cortical neuronal phenotype: FERRI AND LEVITT 121, 1151.
- EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE 121, 299.
- HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

mesoderm patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429.

proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.

Growth promoting activity

GPA receptor function and expression: HELLER, FINN, HUSER, NISHI, GEISSEN, PUSCHEL AND ROHRER 121, 2681

esc

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

Gut

cell signalling and adhesion in the foregut: PANKRATZ AND HOCH 121, 1885. homeotic regulation of cnn: HEUER, LI AND KAUFMAN 121, 3861.

signalling during gut development: ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121, 3163.

Gut differentiation

the EMS cell's response to induction: GOLDSTEIN 121, 1227.

Gut morphogenesis

genetic analysis of α_{PS1}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM, FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.

Gynoecium

Arabidopsis gynoecium structure: SESSIONS AND ZAMBRYSKI 121, 1519.

G₁ phase

regulation of S phase by cyclin E: RICHARDSON, O'KEEFE, MARTY AND SAINT 121, 3371.

G₂/M transition

lineage-specific expression of cdc25: BISSEN 121, 3035.

H19

imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121, 4195

Haematopoiesis

haematopoietic development: GUIMARES, BAZAN, ZLOTNIK, WILES, GRIMALDI, LEE AND MCCLANAHAN 121, 3335.

TGF\$1 controls endothelial differentiation and haematopoiesis: DICKSON, MARTIN, COUSINS, KULKARNI, KARLSSON AND AKHURST 121, 1845.

Haematopoietic stem cells

haematopoietic development: GUIMARES, BAZAN, ZLOTNIK, WILES, GRIMALDI, LEE AND MCCLANAHAN 121, 3335.

Hair cell

inner ear defects of *trkB* and *trkC* mutant mice: SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

hairy

regulation of ftz by runt and hairy: TSAI AND GERGEN 121, 453.

HB-GAM

midkine and HB-GAM in mouse embryos: MITSIADIS, SALMIVIRTA, MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN AND THESLEFF 121, 37.

HD-Zip motif

Arabidopsis Athb-8 expression in procambial

cells: BAIMA, NOBILI, SESSA, LUCCHETTI, RUBERTI AND MORELLI 121, 4171.

Head

Xotx2 and the fate of anterior regions: PANNESE, POLO, ANDREAZZOLI, VIGNALI, KABLAR, BARSACCHI AND BONCINELLI 121, 707.

Head activator neuropeptide

signal transduction: GALLIOT, WELSCHOF, SCHUCKERT, HOFFMEISTER AND SCHALLER 121, 1205.

Head segment

cnc homeotic gene in Drosophila: MOHLER, MAHAFFEY, DEUTSCH AND VANI 121, 237.

headcase

adult morphogenesis in *Drosophila*: WEAVER AND WHITE 121, 4149.

Hear

cloche required by endothelial and blood lineages: STAINIER, WEINSTEIN, DETRICH III, ZON AND FISHMAN 121, 3141.

induction of cardiac myogenesis: SCHULTHEISS, XYDAS AND LASSAR 121 4203

Purkinje fiber differentiation: GOURDIE, MIMA, THOMPSON AND MIKAWA 121, 1423

Heart development

cardiac differentiation without endoderm: GANNON AND BADER 121, 2439.

Heart induction

endoderm in Xenopus cardiogenesis: NASCONE AND MERCOLA 121, 515.

Heart precursor

segmental patterning of the mesoderm: LAWRENCE, BODMER AND VINCENT 121, 4303.

edgehog

cell signalling and adhesion in the foregut: PANKRATZ AND HOCH 121, 1885.

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL 121, 2265.

engrailed and wing morphogenesis: GUILLEN, MULLOR, CAPDEVILA, SANCHEZ-HERRERO, MORATA AND GUERRERO 121, 3447.

gene family of *Xenopus*: EKKER, MCGREW, LAI, LEE, VON KESSLER, MOON AND BEACHY **121**, 2337.

in Drosophila imaginal discs: FELSENFELD AND KENNISON 121, 1.

longitudinal organization of the brain: SHIMAMURA, HARTIGAN, MARTINEZ, PUELLES AND RUBENSTEIN 121, 3923.

morphogenetic furrow and polarity in Drosophila eye: CHANUT AND HEBERLEIN 121, 4085.

neural patterning by hedgehog: LAI, EKKER, BEACHY AND MOON 121, 2349.

Pax proteins and eye development: MACDONALD, BARTH, XU, HOLDER, MIKKOLA AND WILSON 121, 3267.

ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161. zebrafish nk2.2 gene: BARTH AND WILSON 121. 1755.

Helix-loop-helix

Hxt is a bHLH regulator of trophoblast: CROSS, FLANNERY, BLANAR, STEINGRIMSSON, JENKINS, COPELAND, RUTTER AND WERB 121, 2513.

Hematopoiesis

cloche required by endothelial and blood lineages: STAINIER, WEINSTEIN, DETRICH III, ZON AND FISHMAN 121, 3141

development of GATA-1⁻ hematopoietic cells: PEVNY, LIN, D'AGATI, SIMON, ORKIN AND COSTANTINI 121, 163.

Hensen's node

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813. induction in chick Hensen's node: STOREY,

SELLECK AND STERN 121, 417.

Hepatocyte growth factor

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813.

sulphated proteoglycans in kidney development: DAVIES, LYON, GALLAGHER AND GARROD 121, 1507.

Hermaphrodite

dual hermaphrodite role in *Drosophila*: PULTZ AND BAKER 121, 99.

Heterochronic gene

temporal control of collagen transcripts: LIU, KIRCH AND AMBROS 121, 2471. terminal differentiation in *Caenorhabditis*: ROUGVIE AND AMBROS 121, 2491.

Heterochronic transplant

timing of topographic cues: CHIEN, CORNEL AND HOLT 121, 2621.

Heterotopic transplant

regionalization of mammalian forebrain: FISHELL 121, 803.

HGF/SI

in mammary development: NIRANJAN, BULUWELA, YANT, PERUSINGHE, ATHERTON, PHIPPARD, DALE, GUSTERSON AND KAMALATI 121, 2897.

Hindbrain

anteroposterior specification in the CNS: COX AND HEMMATI-BRIVANLOU 121, 4349

FGF-3 in chick development: MAHMOOD, KIEFER, GUTHRIE, DICKSON AND MASON 121, 1399.

plasticity of transposed rhombomeres: GRAPIN-BOTTON, BONNIN, MCNAUGHTON, KRUMLAUF AND LE DOUARIN 121, 2707.

RA alters hindbrain crest cell migration: LEE, OSUMI-YAMASHITA, NINOMIYA, MOON, ERIKSSON AND ETO 121, 825.

Hindgut

signalling during gut development: ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121, 3163.

Hirudo medicinalis

peripheral projections and central neurogenesis: BECKER, BERLINER, NITABACH, GAN AND MACAGNO 121, 359.

Histone acetylation

gene expression in preimplantation mouse embryo: WORRAD, TURNER AND SCHULTZ 121, 2949.

Histone H4

chromatin maturation in mouse embryos:

- THOMPSON, LEGOUY, CHRISTIANS AND RENARD 121, 3425.
- gene expression in preimplantation mouse embryo: WORRAD, TURNER AND SCHULTZ 121, 2949.

HMG-I(Y)

chromatin maturation in mouse embryos: THOMPSON, LEGOUY, CHRISTIANS AND RENARD 121, 3425.

hnRNPs

biogenesis of the coiled body: FERREIRA AND CARMO-FONSECA 121, 601.

HOM-C gene

Caenorhabditis elegans mab-21 gene: CHOW, HALL AND EMMONS 121, 3615.

Homeobox

- Arabidopsis Athb-8 expression in procambial cells: BAIMA, NOBILI, SESSA, LUCCHETTI, RUBERTI AND MORELLI 121, 4171.
- connective tissue homeobox genes: OLIVER, WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN, ZIPURSKY AND GRUSS 121. 693.
- control of Spemann organizer: ZARAISKY, ECOCHARD, KAZANSKAYA, LUKYANOV, FESENKO AND DUPRAT 121, 3839.
- genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.
- Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957.
- Hoxa 11 structure, expression and function in fertility: HSIEH-LI, WITTE, WEINSTEIN, BRANFORD, LI, SMALL AND POTTER 121, 1373.
- Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.
- Hoxc-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4339.
- LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121, 4117.
- longitudinal organization of the brain: SHIMAMURA, HARTIGAN, MARTINEZ, PUELLES AND RUBENSTEIN 121, 3923.
- mouse eye homeobox gene: OLIVER, MAILHOS, WEHR, COPELAND, JENKINS AND GRUSS 121, 4045.
- msx genes and zebrafish fin regeneration: AKIMENKO, JOHNSON, WESTERFIELD AND EKKER 121, 347.
- neural expression of *ceh-10*: SVENDSEN AND MCGHEE **121**, 1253.
- Xotx2 and the fate of anterior regions: PANNESE, POLO, ANDREAZZOLI, VIGNALI, KABLAR, BARSACCHI AND BONCINELLI 121, 707.

Homeodomain

- an active repressor mimics a ftz mutant: JOHN, SMITH AND JAYNES 121, 1801.
- apterous and neuronal pathfinding: LUNDGREN, CALLAHAN, THOR AND THOMAS 121, 1769.
- asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS, SOFRONIEW AND RABBITTS 121, 2909.
- eve as a morphogen for single cell rows: FUJIOKA, JAYNES AND 121, 4371.

homeotic gene regulation of tracheal development: CHIANG, YOUNG AND BEACHY 121, 3901.

Homeoprotein

- expression in pancreas: GUZ, MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121, 11.
- unc-4 control of VA motor neuron development: MILLER III AND NIEMEYER 121, 2877.
- XDCoH the cofactor of LFB1 in Xenopus: POGGE V. STRANDMANN AND RYFFEL 121, 1217.

Homeotic gene

- Caenorhabditis elegans mab-21 gene: CHOW, HALL AND EMMONS 121, 3615.
- cnc homeotic gene in *Drosophila*: MOHLER, MAHAFFEY, DEUTSCH AND VANI 121, 237.
- control of *Drosophila* adult pattern by extradenticle: GONZALEZ-CRESPO AND MORATA 121, 2117.
- Dlw specifies dorsal wing identity in Drosophila: TIONG, NASH AND BENDER 121, 1649.
- floricaula in single cell layers activates downstream genes: HANTKE, CARPENTER AND COEN 121, 27.
- homeotic regulation of cnn: HEUER, LI AND KAUFMAN 121, 3861.
- Polycomb-binding sites in the BX-C: CHIANG, O'CONNOR, PARO, SIMON AND BENDER 121, 1681.
- regulation of tracheal development: CHIANG, YOUNG AND BEACHY 121, 3901.
- regulatory sequences of proboscipedia: KAPOUN AND KAUFMAN 121, 2127.
- tsh regulation by homeotic genes: MCCORMICK, CORE, KERRIDGE AND SCOTT 121, 2799.

Homeotic transformation

adult requirements for *exd*: RAUSKOLB, SMITH, PEIFER AND WIESCHAUS **121**, 3663

Homologous recombination

- goosecoid knockout: YAMADA, MANSOURI, TORRES, STUART, BLUM, SCHULTZ, DE ROBERTIS AND GRUSS 121, 2917.
- lineage restriction of myf5 in the brain: TAJBAKHSH AND BUCKINGHAM 121, 4077.
- RBP-Jr gene knock-out mice: OKA, NAKANO, WAKEHAM, LUIS DE LA POMPA, MORI, SAKAI, OKAZAKI, KAWAICHI, SHIOTA, MAK AND HONJO 121, 3291.

Hormon

adult morphogenesis in *Drosophila*: WEAVER AND WHITE **121**, 4149.

Hox genes

- and vertebral transposition: BURKE, NELSON, MORGAN AND TABIN 121, 333.
- ascidian labial group Hox gene: KATSUYAMA, WADA, YASUGI AND SAIGA 121, 3197.
- Caenorhabditis elegans mab-21 gene: CHOW, HALL AND EMMONS 121, 3615.
- Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.
- plasticity of transposed rhombomeres: GRAPIN-BOTTON, BONNIN,

- MCNAUGHTON, KRUMLAUF AND LE DOUARIN 121, 2707.
- plasticity of transposed rhombomeres: GRAPIN-BOTTON, BONNIN, MCNAUGHTON, KRUMLAUF AND LE DOUARIN 121, 2707.
- signalling during gut development: ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121, 3163.

Hoxa-1

Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957.

Hoxa-3

Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.

Hoxa-7

anterior expression boundary of Hoxa-7: KNITTEL, KESSEL, KIM AND GRUSS 121, 1077.

HoxA9

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

Hox11

asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS, SOFRONIEW AND RABBITTS 121, 2909.

HoxA13

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

HoxD

- development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA-BELMONTE, DUPREZ AND WOLPERT 121, 4329.
- Id disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121, 4237.

HSP 70.1

transcriptional activation of the mouse zygotic genome: CHRISTIANS, CAMPION, THOMPSON AND RENARD 121, 113.

huckebein

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067.

Humar

- asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS,
- SOFRONIEW AND RABBITTS 121, 2909. dpp signaling requires schnurri: STAEHLING-HAMPTON, LAUGHON AND HOFFMANN 121, 3393.
- EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE 121, 299.
- fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.
- plasticity of IGF2 imprinting status: EKSTROM, CUI, LI AND OHLSSON 121,
- submucosal gland development and morphogenesis: ENGELHARDT, SCHLOSSBERG AND YANKASKAS AND DUDUS 121, 2031.
- Human bone morphogenetic protein 1 (BMP1) HMP1: a developmental astacin proteinase:

YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

hunchback

bithorax regulation by gap genes in Drosophila: CASARES AND SANCHEZ-HERRERO 121, 1855.

caudal regulation and function: SCHULZ AND TAUTZ 121, 1023.

expression in *Tribolium*: WOLF, SOMMER, SCHRODER, GLASER AND TAUTZ **121**, 4227.

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067.

Hxt

a bHLH regulator of trophoblast: CROSS, FLANNERY, BLANAR, STEINGRIMSSON, JENKINS, COPELAND, RUTTER AND WERB 121, 2513.

Hydra

achaete-scute homolog: GRENS, MASON, MARSH AND BODE 121, 4027.

head activator signal transduction: GALLIOT, WELSCHOF, SCHUCKERT, HOFFMEISTER AND SCHALLER 121, 1205.

head formation in *Hydra*: TECHNAU AND HOLSTEIN 121, 1273.

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

Hypocampus

BDNF regulation by GABA: BERNINGER, MARTY, ZAFRA, DA PENHA BERZAGHI, THOENEN AND LINDHOLM 121, 2327.

ICM

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

IGF2

plasticity of IGF2 imprinting status: EKSTROM, CUI, LI AND OHLSSON 121, 309.

Imaginal disc

control of *Drosophila* adult pattern by extradenticle: GONZALEZ-CRESPO AND MORATA 121, 2117.

genetic hierarchy of *Drosophila* wing vein development: STURTEVANT AND BIER 121, 785.

hedgehog in Drosophila imaginal discs: FELSENFELD AND KENNISON 121, 1. orthodenticle in Drosophila head development:

ROYET AND FINKELSTEIN 121, 3561. proximal-distal pattern in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN

121, 589.
ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161.

regulation of the *ci* gene: SCHWARTZ, LOCKE, NISHIDA AND KORNBERG 121, 1625.

role of fj in proximal-distal growth: VILLANO AND KATZ 121, 2767.

shs acts in *Drosophila* eye development: TREISMAN, LAI AND RUBIN 121, 2835.

the proneural gene for chordotonal organs and photoreceptors: JARMAN, SUN, JAN AND JAN 121, 2019.

wg inhibits the morphogenetic furrow: TREISMAN AND RUBIN 121, 3519.

Imaginal precursors

role of Awh in imaginal development: CURTISS AND HEILIG 121, 3819.

Imaginal primordia

adult morphogenesis in *Drosophila*: WEAVER AND WHITE **121**, 4149.

Immunocytochemistry

EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE 121, 299.

Implantation

H19 imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121, 4195.

plasticity of IGF2 imprinting status: EKSTROM, CUI, LI AND OHLSSON 121, 309.

proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.

sperm injection: KIMURA AND YANAGIMACHI 121, 2397.

In ovo transplantation

mouse somite transplantation: FONTAINE-PERUS, JARNO, FOURNIER LE RAY, LI AND PAULIN 121, 1705.

In situ hybridization

composition of the Organizer: VODICKA AND GERHART 121, 3505.

coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.

differentiation of mammary alveolar cells: ROBINSON, MCKNIGHT, SMITH AND HENNIGHAUSEN 121, 2079.

genetic control of cerebellar patterning: MILLEN, HUI AND JOYNER 121, 3935.

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.

RBP-JK gene knock-out mice: OKA, NAKANO, WAKEHAM, LUIS DE LA POMPA, MORI, SAKAI, OKAZAKI, KAWAICHI, SHIOTA, MAK AND HONJO 121, 3291.

TGFα alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

In vitro DNA binding

in vivo and in vitro functions of the DEFICIENS gene: ZACHGO, SILVA, MOTTE, TROBNER, SAEDLER AND SCHWARZ-SOMMER 121, 2861.

In vitro fertilization

mouse sperm capacitation: VISCONTI, BAILEY, MOORE, PAN, OLDS-CLARKE AND KOPF 121, 1129.

regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139.

Inducer

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL 121, 2265.

Induction

anteroposterior specification in the CNS: COX AND HEMMATI-BRIVANLOU 121, 4349.

cardiac differentiation without endoderm: GANNON AND BADER 121, 2439. dorsalization of the neural tube by non-neural ectoderm: DICKINSON, SELLECK, MCMAHON AND BRONNER-FRASER

dorsal gradients and mesoderm induction in Drosophila: MAGGERT, LEVINE AND FRASCH 121, 2107.

duels in Caenorhabditis development: SCHNABEL 121, 2219.

in chick Hensen's node: STOREY, SELLECK AND STERN 121, 417.

mesoderm patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429. muscle induction in *Drosophila*: BAKER

AND SCHUBIGER 121, 1387. neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER

121, 525. of notochord behavior and differentiation: DOMINGO AND KELLER 121, 3311.

paraxial mesoderm myogenic induction: STERN, BROWN AND HAUSCHKA 121, 3675.

prostatic induction by seminal vesicle: DONJACOUR AND CUNHA 121, 2199.

segmental patterning of the mesoderm: LAWRENCE, BODMER AND VINCENT 121, 4303.

signalling during gut development: ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121, 3163.

uterine fate induction in *Caenorhabditis*: NEWMAN, WHITE AND STERNBERG 121, 263.

Inflorescence

chimeras show non-autonomy of floricaula: CARPENTER AND COEN 121, 19.

Inner cell mass

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

Inner ear

defects of trkB and trkC mutant mice: SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

Innervation

is essential for male muscle: CURRIE AND BATE 121, 2549.

Inositol

IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645.

Insect leg

initiation of the proximodistal axis in insect legs: CAMPBELL AND TOMLINSON 121, 619.

Insulin

developmental biology of the pancreas: SLACK 121, 1569.

Insulin gene

homeoprotein expression in pancreas: GUZ, MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121, 11.

Insulin promoter factor-1 (IPF-1) developmental biology of the pancreas: SLACK 121, 1569.

Insulin-like growth factor-1 receptor parthenote stem cell defects: NEWMAN-SMITH AND WERB 121, 2069.

Integrin

α₄ integrin-deficient mice: YANG, RAYBURN AND HYNES 121, 549. α₂β₁ in developing retina: BRADSHAW, MCNAGNY, GERVIN, CANN, GRAF AND CLEGG 121, 3593.

cell signalling and adhesion in the foregut: PANKRATZ AND HOCH 121, 1885.

Intercellular communication

gap junctional blockade in early Xenopus embryos: PAUL, YU, BRUZZONE, GIMLICH AND GOODENOUGH 121. 371

Intermediate filament

desmin and myofibril-membrane attachment: CARY AND KLYMKOWSKY 121, 1041.

Intersomite junction

desmin and myofibril-membrane attachment: CARY AND KLYMKOWSKY 121, 1041.

Intestine

downstream effects of ET-B deletion: KAPUR. SWEETSER, DOGGETT, SIEBERT AND PALMITER 121, 3787.

Intracellular calcium

IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645.

Intracellular pH

pHi decrease important for axis formation in Xenopus: GUTKNECHT, KOSTER, TERTOOLEN, DE LAAT AND DURSTON 121, 1911.

Intracellular signalling

neural crest cadherins: NAKAGAWA AND TAKEICHI 121, 1321.

Intravital microscopy

neural crest cell migration: BIRGBAUER, SECHRIST, BRONNER-FRASER AND FRASER 121, 935.

Invagination

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

Drosophila engrailed and developmental compartments: TABATA, SCHWARTZ, GUSTAVSON, ALI AND KORNBERG 121, 3359.

engrailed and wing morphogenesis: GUILLEN, MULLOR, CAPDEVILA, SANCHEZ-HERRERO, MORATA AND **GUERRERO 121, 3447.**

Islet cells

developmental biology of the pancreas: SLACK 121, 1569.

islet1

LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121, 4117.

islet2

LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121, 4117.

K10

gratuitous localization of K10 mRNA: SERANO AND COHEN 121, 3013.

Keratinocyte

RA in regenerating limb blastema: VIVIANO, HORTON, MADEN AND BROCKES 121, 3753.

Kidney

cell commitment in kidney development: QIAO, COHEN AND HERZLINGER 121,

repression of Pax-2 by WT1: RYAN,

STEELE-PERKINS, MORRIS, RAUSCHER III AND DRESSLER 121, 867

sulphated proteoglycans in kidney development: DAVIES, LYON. GALLAGHER AND GARROD 121, 1507.

Kinase XGSK-3

regulation of axial pattern by Xgsk-3: PIERCE AND KIMELMAN 121, 755.

Knock-out mutant

B-catenin and mouse development at gastrulation: HAEGEL, LARUE, OHSUGI, FEDOROV, HERRENKNECHT AND KEMLER 121, 3529.

GATA-4 and endoderm differentiation: SOUDAIS, BIELINSKA, HEIKINHEIMO, MACARTHUR, NARITA, SAFFITZ, SIMON, LEIDEN AND WILSON 121. 3877

krox20

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

L-type calcium channel

calcium channels and the cell cycle in blastomeres: YAZAKI, TOSTI AND DALE 121, 1827.

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813.

labial group gene

ascidian labial group Hox gene: KATSUYAMA, WADA, YASUGI AND SAIGA 121, 3197.

lacZ

anterior expression boundary of Hoxa-7: KNITTEL, KESSEL, KIM AND GRUSS 121, 1077.

Hoxc-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4339.

lag-2

DSL protein structure/function: FITZGERALD AND GREENWALD 121. 4275

Lamina

retinotectal interactions in vitro: YAMAGATA AND SANES 121, 189.

Laminin

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

Late embryo development

in Arabidopsis: NAMBARA, KEITH, MCCOURT AND NAITO 121, 629.

Lateral inhibition

clonal analysis of Su(H): SCHWEISGUTH 121, 1875.

Notch and wingless in the fly wing: RULIFSON AND BLAIR 121, 2813.

Lateral root

meristem development in lateral roots: LASKOWSKI, WILLIAMS, NUSBAUM AND SUSSEX 121, 3303.

Drosophila lats gene encodes a putative protein kinase: XU, WANG, ZHANG, STEWART AND YU 121, 1053.

Leaf development

control of dorsoventrality in leaves: WAITES AND HUDSON 121, 2143.

Leaf growth

meristem development in Arabidopsis: TALBERT, ADLER, PARKS AND COMAI 121, 2723.

Leech

neurogenic sublineage required for CNS segmentation in Annelids: RAMIREZ, WEDEEN, STUART, LANS AND WEISBLAT 121, 2091.

Left-right asymmetry

cardiac left-right development: DANOS AND YOST 121, 1467.

in the Caenorhabditis embryo: HUTTER AND SCHNABEL 121, 3417.

Leg development

adult requirements for exd: RAUSKOLB. SMITH, PEIFER AND WIESCHAUS 121. 3663

Wingless function in the leg disc: WILDER AND PERRIMON 121, 477.

Leg imaginal disc

wingless induces transdetermination: MAVES AND SCHUBIGER 121, 1263.

Length regulation

tektin mRNA and cilia length in sea urchins: NORRANDER, LINCK AND STEPHENS

Lens

dominant negative FGFR1 in the lens: ROBINSON, MACMILLAN-CROW, THOMPSON AND OVERBEEK 121.

FGF in lens development: CHOW, ROUX, ROGHANI, PALMER, RIFKIN MOSCATELLI AND LANG 121, 4383.

FGF-induced lens differentiation in vivo: ROBINSON, OVERBEEK, VERRAN, GRIZZLE, STOCKARD, FRIESEL MACIAG AND THOMPSON 121, 505.

Lens placode

Pax-6 in eye and nasal development: GRINDLEY, DAVIDSON AND HILL 121,

Leptomeningi

truncated trkB in the developing chick: BIFFO, OFFENHAUSER, CARTER AND BARDE 121, 2461.

let-23

mosaic analysis of let-23 gene function: KOGA AND OHSHIMA 121, 2655.

lethal of scute

neurogenic genes control l'sc and mesectoderm: MARTIN-BERMUDO. CARMENA AND JIMENEZ 121, 219.

Leucine zipper

shs acts in Drosophila eye development: TREISMAN, LAI AND RUBIN 121, 2835. Leukaemia

asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS. SOFRONIEW AND RABBITTS 121, 2909.

Leukemia inhibitory factor

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

LEUNIG regulates AGAMOUS expression: LIU AND MEYEROWITZ 121, 975.

LIF

immortal mouse melanoblasts: SVIDERSKAYA, WAKELING AND BENNETT 121, 1547.

proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.

ligand

DSL protein structure/function: FITZGERALD AND GREENWALD 121, 4275.

apterous and neuronal pathfinding: LUNDGREN, CALLAHAN, THOR AND THOMAS 121, 1769.

homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR. EDLUND, DAWID AND EISEN 121,

lim 1

goosecoid and lim1 expression and axis duplication in zebrafish: TOYAMA, O'CONNELL, WRIGHT, KUEHN AND DAWID 121, 383.

lim3

LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121,

Limb

chimeric mice with excess neuropilin: KITSUKAWA, SHIMONO, KAWAKAMI, KONDOH AND FUJISAWA 121, 4309.

connective tissue homeobox genes: OLIVER. WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN. ZIPURSKY AND GRUSS 121, 693.

development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA-BELMONTE, DUPREZ AND WOLPERT 121, 4329.

expression of Msx genes in mouse regeneration: REGINELLI, WANG, SASSOON AND MUNEOKA 121, 1065.

FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

Fgf8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439.

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

Hoxa 11 structure, expression and function in fertility: HSIEH-LI, WITTE, WEINSTEIN, BRANFORD, LI, SMALL AND POTTER 121, 1373.

Id disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121,

IstD limbs contain ectopic ZPA: CHAN, LAUFER, TABIN AND LEDER 121, 1971.

polydactyly in CRABP-II mutant mice: FAWCETT, PASCERI, FRASER, COLBERT, ROSSANT AND GIGUERE 121, 671.

relation of formins to AER and ZPA: CHAN, WYNSHAW-BORIS AND LEDER 121,

Limb bud

myogenic cell migration in chick embryos: HAYASHI AND OZAWA 121, 661.

Limb defects

resistance to RA induced limb defects in RXRα-/- mice: SUCOV, IZPISUA-

BELMONTE, GANAN AND EVANS 121,

limb deformity

relation of formins to AER and ZPA: CHAN, WYNSHAW-BORIS AND LEDER 121, 3151.

limb deformity (ld)

ld disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121, 4237.

Limb mutant

IstD limbs contain ectopic ZPA: CHAN, LAUFER, TABIN AND LEDER 121, 1971. relation of formins to AER and ZPA: CHAN. WYNSHAW-BORIS AND LEDER 121,

Limb patterning

Shh in chick and mouse embryo: MARTI, TAKADA, BUMCROT, SASAKI AND MCMAHON 121, 2537.

Limb regeneration

expression of Msx genes in mouse regeneration: REGINELLI, WANG, SASSOON AND MUNEOKA 121, 1065. homeobox genes and limb regeneration:

GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

msx genes and zebrafish fin regeneration: AKIMENKO, JOHNSON, WESTERFIELD AND EKKER 121, 347.

Limbic system-associated membrane protei control of cortical neuronal phenotype: FERRI AND LEVITT 121, 1151.

lin-12

DSL protein structure/function: FITZGERALD AND GREENWALD 121, 4275

lin-12

uterine fate induction in Caenorhabditis: NEWMAN, WHITE AND STERNBERG 121, 263.

lin-29

temporal control of collagen transcripts: LIU, KIRCH AND AMBROS 121, 2471. terminal differentiation in Caenorhabditis: ROUGVIE AND AMBROS 121, 2491.

Lineage

NPY expression and cell lineage: HALL AND MACPHEDRAN 121, 2361.

submucosal gland development and morphogenesis: ENGELHARDT, SCHLOSSBERG AND YANKASKAS AND DUDUS 121, 2031.

Lipid-binding protein

expression pattern and function of Lazarillo: SANCHEZ, GANFORNINA AND BASTIANI 121, 135.

Lazarillo: a neuronal GPI-linked lipocalin: GANFORNINA, SANCHEZ AND BASTIANI 121, 123.

Lipocalin

expression pattern and function of Lazarillo: SANCHEZ, GANFORNINA AND **BASTIANI 121, 135.**

Lazarillo: a neuronal GPI-linked lipocalin: GANFORNINA, SANCHEZ AND BASTIANI 121, 123.

pattern in noggin-induced neural tissue: KNECHT, GOOD, DAWID AND HARLAND 121, 1927.

Lithium

alteration of mesoderm formation at MBT: KINOSHITA AND ASASHIMA 121, 1581. Liver

plasticity of IGF2 imprinting status: EKSTROM, CUI. LI AND OHLSSON 121. 300

LMPCR

demethylation of a muscle-specific transgene: GRIESHAMMER, MCGREW AND ROSENTHAL 121, 2245.

Localization

translational control of oskar: MARKUSSEN, MICHON, BREITWIESER AND EPHRUSSI 121, 3723.

Localized determinant

numb autonomously specifies cell fate: SPANA, KOPCZYNSKI, GOODMAN AND DOE 121, 3489.

Localized maternal RNA

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

Locator element

Cis-regulatory control of the SM50 gene: MAKABE, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1957.

Luciferase

transcriptional activation of the mouse zygotic genome: CHRISTIANS, CAMPION, THOMPSON AND RENARD 121, 113.

Luminal cell

HGF/SF in mammary development: NIRANJAN, BULUWELA, YANT, PERUSINGHE, ATHERTON, PHIPPARD, DALE, GUSTERSON AND KAMALATI 121, 2897.

Lung development

branching of mesenchyme-free lung epithelium: NOGAWA AND ITO 121,

Lung organ culture

pRb in regulation of N-myc expression by TGF-β: SERRA AND MOSES 121, 3057.

Lurcher

apoptotic death in lurcher Purkinje cells: NORMAN, FENG, CHENG, GUBBAY, CHAN AND HEINTZ 121, 1183.

lurcher

multiple cell cycle events precede targetrelated neuronal death: HERRUP AND BUSSER 121, 2385.

Lymphocyte migration

carbohydrate involvement in B cell development: MASTELLER, LARSEN, CARLSON, PICKEL, NICKOLOFF, LOWE, THOMPSON AND LEE 121, 1657.

M33

function of Polycomb in mice and flies: MULLER, GAUNT AND LAWRENCE 121, 2847.

mab-21

Caenorhabditis elegans mab-21 gene: CHOW, HALL AND EMMONS 121, 3615.

Macrophage colony-stimulating factor CSF-1 and preimplantation development: BHATNAGAR, PAPAIOANNOU AND BIGGERS 121, 1333.

MADS-box

in vivo and in vitro functions of the DEFICIENS gene: ZACHGO, SILVA, MOTTE, TROBNER, SAEDLER AND SCHWARZ-SOMMER 121, 2861.

Maintenance element

Polycomb-binding sites in the BX-C:

CHIANG, O'CONNOR, PARO, SIMON AND BENDER 121, 1681.

Male-specific lethal

regulation of dosage compensation: BASHAW AND BAKER 121, 3245.

male-specific lethal-3

male-specific lethal-3 gene and dosage compensation in *Drosophila*: GORMAN, FRANKE AND BAKER 121, 463.

Male-specific muscle

innervation is essential for male muscle: CURRIE AND BATE 121, 2549.

Mammal

epigenetic control of BLBP transcription: FENG AND HEINTZ 121, 1719.

Mammalian CNS

multiple cell cycle events precede targetrelated neuronal death: HERRUP AND BUSSER 121, 2385.

Mammalian embryogenesis

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

Mammary fibroblast

HGF/SF in mammary development: NIRANJAN, BULUWELA, YANT, PERUSINGHE, ATHERTON, PHIPPARD, DALE, GUSTERSON AND KAMALATI 121, 2897.

Mammary gland

differentiation of mammary alveolar cells: ROBINSON, MCKNIGHT, SMITH AND HENNIGHAUSEN 121, 2079.

tachykinins in morphogenetic processes: WEIL, ITIN AND KESHET 121, 2419.

MAP kinase

Caenorhabditis meiotic progression: CHURCH, GUAN AND LAMBIE 121, 2525

MAP kinase in Xenopus mesoderm induction and axial patterning: LABONNE, BURKE AND WHITMAN 121, 1475.

Maternal effect

eggshell defects and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023.

Maternal FGF

mesoderm patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429.

Maternal mRNA

translational control of *Xenopus* FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI 121, 1775.

Matrigel

branching of mesenchyme-free lung epithelium: NOGAWA AND ITO 121, 1015.

Matrix metalloproteinase

developmental expression of mouse stromelysin-3 RNA: LEFEBVRE, REGNIER, CHENARD, WENDLING, CHAMBON, BASSET AND P. 121, 947.

proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.

Meiosis

Caenorhabditis meiotic progression: CHURCH, GUAN AND LAMBIE 121, 2525.

pelota meiotic G₂/M arrest: EBERHART AND WASSERMAN 121, 3477.

sperm-induced Ca²⁺ rises at metaphase: JONES, CARROLL, MERRIMAN, WHITTINGHAM AND KONO **121**, 3259. translational control of Xenopus FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI 121, 1775.

MEK

Caenorhabditis meiotic progression: CHURCH, GUAN AND LAMBIE 121, 2525.

Melanoblast specification

only melanocytes migrate dorsolaterally: ERICKSON AND GOINS 121, 915.

Melanocyte

immortal mouse melanoblasts: SVIDERSKAYA, WAKELING AND BENNETT 121, 1547.

only melanocytes migrate dorsolaterally: ERICKSON AND GOINS 121, 915.

Melanocyte precursor

roles of SIF in melanocyte dispersal and survival: WEHRLE-HALLER AND WESTON 121, 731.

Ménétrier's disease

TGFα alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

Meristem

chimeras show non-autonomy of *floricaula*: CARPENTER AND COEN **121**, 19. development in *Arabidopsis*: TALBERT.

ADLER, PARKS AND COMAI 121, 2723. development in lateral roots: LASKOWSKI,

development in lateral roots: LASKOWSKI, WILLIAMS, NUSBAUM AND SUSSEX 121, 3303.

floricaula in single cell layers activates downstream genes: HANTKE, CARPENTER AND COEN 121, 27.

mes-1

and germ-cell fate in *Caenorhabditis*: STROME, MARTIN, SCHIERENBERG AND PAULSEN 121, 2961.

Mesectoderm specification

neurogenic genes control l'sc and mesectoderm: MARTIN-BERMUDO, CARMENA AND JIMENEZ 121, 219.

Mesenchymal factor

developmental biology of the pancreas: SLACK 121, 1569.

Mesenchymal-epithelial interactions

prostatic induction by seminal vesicle: DONJACOUR AND CUNHA 121, 2199. tachykinins in morphogenetic processes: WEIL, ITIN AND KESHET 121, 2419.

Mesoderm

amphioxus *Brachyury* genes: HOLLAND, KOSCHORZ, HOLLAND AND HERRMANN 121, 4283.

anti-dorsalizing morphogenetic protein: MOOS JR., WANG AND KRINKS 121, 4293

cDNA libraries from gastrulating mouse embryos: HARRISON, DUNWOODIE, ARKELL, LEHRACH AND BEDDINGTON 121, 2479.

cell autonomy of fth in axial mesoderm: HALPERN, THISSE, HO, THISSE, RIGGLEMAN, TREVARROW, WEINBERG, POSTLETHWAIT AND KIMMEL 121, 4257.

cell commitment in kidney development: QIAO, COHEN AND HERZLINGER 121, 3207.

dorsal gradients and mesoderm induction in Drosophila: MAGGERT, LEVINE AND FRASCH 121, 2107. dpp signaling requires schnurri: STAEHLING-HAMPTON, LAUGHON AND HOFFMANN 121, 3393.

IMZ stiffness in Xenopus: MOORE, KELLER AND KOEHL 121, 3131.

induction of notochord behavior and differentiation: DOMINGO AND KELLER 121, 3311.

mesodermal patterning in *Drosophila*: BORKOWSKI, BROWN AND BATE 121, 4183.

patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429.

role of FGF activity in axis formation: GRIFFIN, PATIENT AND HOLDER 121, 2983.

wingless and myogenesis: BAYLIES, MARTINEZ ARIAS AND BATE 121, 3829

Mesoderm induction

alteration of mesoderm formation at MBT: KINOSHITA AND ASASHIMA 121, 1581. by soluble Vg1: KESSLER AND MELTON 121, 2155.

dorsal activity in *Xenopus* eggs: HOLOWACZ AND ELINSON 121, 2789.

MAP kinase in *Xenopus* mesoderm induction and axial patterning: LABONNE, BURKE AND WHITMAN 121, 1475.

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

mesodermal patterning by *Brachyury* and *Pintallavis*: O'REILLY, SMITH AND CUNLIFFE **121**, 1351.

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

Mesoderm segmentation

segmental patterning of the mesoderm: LAWRENCE, BODMER AND VINCENT 121, 4303.

Mesoglea

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

messenger RNA

tektin mRNA and cilia length in sea urchins: NORRANDER, LINCK AND STEPHENS 121, 1615.

Metalloproteinases

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

Metamorphosis

Drosophila E63 genes: ANDRES AND THUMMEL 121, 2667.

functions of E74 during Drosophila metamorphosis: FLETCHER, BURTIS, HOGNESS AND THUMMEL 121, 1455.

molecular phenotypes of E74 phenotypes: FLETCHER AND THUMMEL 121, 1411.

Metanephric blastema

cell commitment in kidney development: QIAO, COHEN AND HERZLINGER 121, 3207.

Metaphase

arrest in maturing oocytes: HAMPL AND EPPIG 121, 925.

Metaplasia

developmental biology of the pancreas: SLACK 121, 1569.

METRO

two pathways for vegetal localization: KLOC AND ETKIN 121, 287.

men

genetic analysis of α_{PS1}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM, FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.

MHC embryonic

MRF4 disruption causes myotome and rib defects: PATAPOUTIAN, YOON, MINER, WANG, STARK AND WOLD 121, 3347.

Micromanipulation

a polarising induction: HUTTER AND SCHNABEL 121, 1559.

left-right asymmetry in the Caenorhabditis embryo: HUTTER AND SCHNABEL 121, 3417.

Microtubule

conditional root expansion mutants: HAUSER, MORIKAMI AND BENFEY 121, 1237.

Midblastula transition

alteration of mesoderm formation at MBT: KINOSHITA AND ASASHIMA 121, 1581.

Midkine

midkine and HB-GAM in mouse embryos: MITSIADIS, SALMIVIRTA. MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN AND THESLEFF 121, 37.

Midline glia

midline glial cell death: SONNENFELD AND JACOBS 121, 569.

Migration

myogenic cell migration in chick embryos: HAYASHI AND OZAWA 121, 661. oligodendrocyte development in chick spinal

cord: ONO, BANSAL, PAYNE, RUTISHAUSER AND MILLER 121, 1743. RA alters hindbrain crest cell migration: LEE, OSUMI-YAMASHITA, NINOMIYA.

MOON, ERIKSSON AND ETO 121, 825.

regulation of gene expression in the CNS: CUI AND DOE 121, 3233.

mini-white

su(Hw) protein and dosage compensation: ROSEMAN, SWAN AND GEYER 121, 3573.

Minigene

regulatory sequences of *proboscipedia*: KAPOUN AND KAUFMAN 121, 2127.

Mirror-symmetry

frizzled and pattern formation in Drosophila eye: ZHENG, ZHANG AND CARTHEW 121, 3045.

Mitochondrial cloud

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

Mitogenesis

peripheral projections and central neurogenesis: BECKER, BERLINER, NITABACH, GAN AND MACAGNO 121, 359.

Mitosis

cell cycle dependence of eve expression:
WEIGMANN AND LEHNER 121, 3713.
role of Drosophila Bag of marbles protein:
MCKEARIN AND OHLSTEIN 121, 2937.
sperm-induced Ca²⁺ rises at metaphase:

JONES, CARROLL, MERRIMAN, WHITTINGHAM AND KONO 121, 3259.

Mitotic cycle

mitotic delay dependent survival: RUDEN AND JACKLE 121, 63.

Monolayer cultures

CNTF promotes photoreceptor development: FUHRMANN, KIRSCH AND HOFMANN 121, 2695.

moonfaced phenotype

ascidian labial group Hox gene: KATSUYAMA, WADA, YASUGI AND SAIGA 121, 3197.

Moonrat

hedgehog in Drosophila imaginal discs: FELSENFELD AND KENNISON 121, 1.

Morphogen

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL **121**, 2265.

eve as a morphogen for single cell rows: FUJIOKA, JAYNES AND 121, 4371.

FGF signalling in *Xenopus*: KENGAKU AND OKAMOTO **121**, 3121.

Morphogenesis

cell signalling and adhesion in the foregut: PANKRATZ AND HOCH 121, 1885.

early placental development in mouse embryos: DOWNS AND GARDNER 121, 407

HGF/SF in mammary development: NIRANJAN, BULUWELA, YANT, PERUSINGHE, ATHERTON, PHIPPARD, DALE, GUSTERSON AND KAMALATI 121, 2897.

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

induction of notochord behavior and differentiation: DOMINGO AND KELLER 121, 3311.

submucosal gland development and morphogenesis: ENGELHARDT, SCHLOSSBERG AND YANKASKAS AND DUDUS 121, 2031.

sulphated proteoglycans in kidney development: DAVIES, LYON, GALLAGHER AND GARROD 121, 1507.

tachykinins in morphogenetic processes: WEIL, ITIN AND KESHET 121, 2419.

Morphogenetic furrow

and polarity in *Drosophila* eye: CHANUT AND HEBERLEIN 121, 4085.

and tissue polarity: MA AND MOSES 121, 2279.

shs acts in *Drosophila* eye development: TREISMAN, LAI AND RUBIN 121, 2835. wg inhibits the morphogenetic furrow: TREISMAN AND RUBIN 121, 3519.

Morphogenetic movement

zebrafish neural fate maps: WOO AND FRASER 121, 2595.

Morphogenic gradient

Snake zymogen and activated forms: SMITH, GIORDANO, SCHWARTZ AND DELOTTO 121, 4127.

Mosaic

chimeras show non-autonomy of *floricaula*: CARPENTER AND COEN **121**, 19.

Mosaic analysis

of let-23 gene function: KOGA AND OHSHIMA 121, 2655.

Mosaic screen

Drosophila lats gene encodes a putative protein kinase: XU, WANG, ZHANG, STEWART AND YU 121, 1053.

Motility

induction of notochord behavior and differentiation: DOMINGO AND KELLER 121, 3311.

Motoneuron

LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121, 4117

muscle sensory neurons require NT-3 to survive: OAKLEY, GARNER, LARGE AND FRANK 121, 1341.

Motor axon

versican localization in barrier tissues: LANDOLT, VAUGHAN, WINTERHALTER AND ZIMMERMANN 121, 2303.

Motor neurons

unc-4 control of VA motor neuron development: MILLER III AND NIEMEYER 121, 2877.

Mouse

α₄ integrin-deficient mice: YANG, RAYBURN AND HYNES 121, 549.

alkaline phosphatase and PGCs: MACGREGOR, ZAMBROWICZ AND SORIANO 121, 1487.

apoptotic death in lurcher Purkinje cells: NORMAN, FENG, CHENG, GUBBAY, CHAN AND HEINTZ 121, 1183.

asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON, SMITH, WARREN, EVANS, SOFRONIEW AND RABBITTS 121, 2909.

β-catenin and mouse development at gastrulation: HAEGEL, LARUE, OHSUGI, FEDOROV, HERRENKNECHT AND KEMLER 121, 3529.

biogenesis of the coiled body: FERREIRA AND CARMO-FONSECA 121, 601.

branching of mesenchyme-free lung epithelium: NOGAWA AND ITO 121, 1015.

cDNA libraries from gastrulating mouse embryos: HARRISON, DUNWOODIE, ARKELL, LEHRACH AND BEDDINGTON 121, 2479.

chimerism with mouse male fetal germ cells: KATO AND TSUNODA **121**, 779.

connective tissue homeobox genes: OLIVER, WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN, ZIPURSKY AND GRUSS 121, 693.

coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.

cortex cell dispersion patterns in trangenic mosaics: TAN, FAULKNER-JONES, BREEN, WALSH, BERTRAM AND REESE 121, 1029.

CRABPI and CRABPII knockout: LAMPRON, ROCHETTE-EGLY, GORRY, DOLLE, MARK, LUFKIN, LEMEUR AND CHAMBON 121, 539.

demethylation of a muscle-specific transgene: GRIESHAMMER, MCGREW AND ROSENTHAL 121, 2245.

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

developmental expression of mouse stromelysin-3 RNA: LEFEBVRE,

- REGNIER, CHENARD, WENDLING, CHAMBON, BASSET AND P. 121, 947.
- dominant negative FGFR1 in the lens: ROBINSON, MACMILLAN-CROW, THOMPSON AND OVERBEEK 121, 3959.
- downstream effects of ET-B deletion: KAPUR, SWEETSER, DOGGETT, SIEBERT AND PALMITER 121, 3787.
- Drosophila lats gene encodes a putative protein kinase: XU, WANG, ZHANG, STEWART AND YU 121, 1053.
- early placental development in mouse embryos: DOWNS AND GARDNER 121, 407
- embryonic expression of agouti: MILLAR, MILLER, STEVENS AND BARSH 121,
- endothelial specific promoter: SCHLAEGER, QIN, FUJIWARA, MAGRAM AND SATO 121, 1089.
- expression of *Msx* genes in mouse regeneration: REGINELLI, WANG, SASSOON AND MUNEOKA **121**, 1065.
- expression of orphan nuclear receptor tailless in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.
- expression of Sry: HACKER, CAPEL, GOODFELLOW AND LOVELL-BADGE 121, 1603.
- eye homeobox gene: OLIVER, MAILHOS, WEHR, COPELAND, JENKINS AND GRUSS 121, 4045.
- FGF in lens development: CHOW, ROUX, ROGHANI, PALMER, RIFKIN, MOSCATELLI AND LANG 121, 4383.
- FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.
- Fgf8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439.
- fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.
- function of Polycomb in mice and flies: MULLER, GAUNT AND LAWRENCE 121, 2847.
- GATA-4 and endoderm differentiation: SOUDAIS, BIELINSKA, HEIKINHEIMO, MACARTHUR, NARITA, SAFFITZ, SIMON, LEIDEN AND WILSON 121, 3877.
- gene expression in preimplantation mouse embryo: WORRAD, TURNER AND SCHULTZ 121, 2949.
- goosecoid -null mice: RIVERA-PEREZ, MALLO, GENDRON-MAGUIRE, GRIDLEY AND BEHRINGER 121, 3005.
- goosecoid knockout: YAMADA, MANSOURI, TORRES, STUART, BLUM, SCHULTZ, DE ROBERTIS AND GRUSS 121, 2917.
- H19 imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121, 4195.
- homeoprotein expression in pancreas: GUZ, MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121, 11.
- Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957. Hox genes and vertebral transposition:

- BURKE, NELSON, MORGAN AND TABIN 121, 333.
- Hoxa 11 structure, expression and function in fertility: HSIEH-LI, WITTE, WEINSTEIN, BRANFORD, LI, SMALL AND POTTER 121, 1373.
- Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.
- Hoxc-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4330
- Hxt is a bHLH regulator of trophoblast: CROSS, FLANNERY, BLANAR, STEINGRIMSSON, JENKINS, COPELAND, RUTTER AND WERB 121, 2513
- immortal mouse melanoblasts: SVIDERSKAYA, WAKELING AND BENNETT 121, 1547.
- in ovo mouse somite transplantation: FONTAINE-PERUS, JARNO, FOURNIER LE RAY, LI AND PAULIN 121, 1705.
- Id disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121, 4237.
- LIFR mutation results in perinatal death: WARE, HOROWITZ, RENSHAW, HUNT, LIGGITT, KOBLAR, GLINIAK, MCKENNA, PAPAYANNOPOULOU, THOMA, CHENG, DONOVAN, PESCHON, BARTLETT, WILLIS 121, 1283
- lineage restriction of myf5 in the brain: TAJBAKHSH AND BUCKINGHAM 121, 4077
- Ist^D limbs contain ectopic ZPA: CHAN, LAUFER, TABIN AND LEDER 121, 1971. metaphase I arrest in maturing oocytes:
- HAMPL AND EPPIG 121, 925. midkine and HB-GAM in mouse embryos: MITSIADIS, SALMIVIRTA, MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN
- AND THESLEFF 121, 37.
 molecular cloning of AP-2: MOSER, IMHOF,
 PSCHERER, BAUER, AMSELGRUBER,
 SINOWATZ, HOFSTADTER, SCHULE
 AND BUETTNER 121, 2779.
- MRF4 disruption causes myotome and rib defects: PATAPOUTIAN, YOON, MINER, WANG, STARK AND WOLD 121, 3347.
- neural fate of distal epiblast: QUINLAN, WILLIAMS, TAN AND TAM 121, 87.
- Notch1 in somite segmentation: CONLON, REAUME AND ROSSANT 121, 1533.
- nuclear Ca²⁺-releasing activity in embryos: KONO, CARROLL, SWANN AND WHITTINGHAM 121, 1123.
- Otx2 and neuroectoderm specification: ACAMPORA, MAZAN, LALLEMAND, AVANTAGGIATO, MAURY, SIMEONE AND BRULET 121, 3279.
- parthenote stem cell defects: NEWMAN-SMITH AND WERB 121, 2069.
- Pax-2 required for urogenital development: TORRES, GOMEZ-PARDO, DRESSLER AND GRUSS 121, 4057.
- Pax-o in eye and nasal development: GRINDLEY, DAVIDSON AND HILL 121, 1433.
- polydactyly in CRABP-II mutant mice: FAWCETT, PASCERI, FRASER,

- COLBERT, ROSSANT AND GIGUERE 121, 671.
- pRb in regulation of N-myc expression by TGF-β: SERRA AND MOSES 121, 3057.
- prostatic induction by seminal vesicle: DONJACOUR AND CUNHA 121, 2199.
- proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.
- PTHrP impairs breast development: WYSOLMERSKI, MCCAUGHERN-CARUCCI, DAIFOTIS, BROADUS AND PHILBRICK 121, 3539.
- RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.
- RBP-Jr gene knock-out mice: OKA, NAKANO, WAKEHAM, LUIS DE LA POMPA, MORI, SAKAI, OKAZAKI, KAWAICHI, SHIOTA, MAK AND HONJO 121, 3291.
- regionalization of mammalian forebrain: FISHELL 121, 803.
- regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139.
- repression of Pax-2 by WT1: RYAN, STEELE-PERKINS, MORRIS, RAUSCHER III AND DRESSLER 121, 867
- resistance to RA induced limb defects in RXR\(\alpha'\) mice: SUCOV, IZPISUA-BELMONTE, GANAN AND EVANS 121, 3097
- scleraxis and skeletal formation in mouse: CSERJESI, BROWN, LIGON, LYONS, COPELAND, GILBERT, JENKINS AND OLSON 121, 1099.
- Shh in chick and mouse embryo: MARTI, TAKADA, BUMCROT, SASAKI AND MCMAHON 121, 2537.
- somitomere and neural crest cells: TRAINOR AND TAM 121, 2569.
- sperm capacitation: VISCONTI, BAILEY, MOORE, PAN, OLDS-CLARKE AND KOPF 121, 1129.
- sperm injection: KIMURA AND YANAGIMACHI 121, 2397.
- sulphated proteoglycans in kidney development: DAVIES, LYON, GALLAGHER AND GARROD 121, 1507.
- T in morphogenetic movement: WILSON, MANSON, SKARNES AND BEDDINGTON 121, 877.
- tachykinins in morphogenetic processes: WEIL, ITIN AND KESHET 121, 2419.
- TBP, TFIIB, and pol II in spermatids: SCHMIDT AND SCHIBLER 121, 2373. TGFα alters differentiation in gastric mucosa:
- SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.
- TGFα induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.
- TGFβ1 controls endothelial differentiation and haematopoiesis: DICKSON, MARTIN, COUSINS, KULKARNI, KARLSSON AND AKHURST 121, 1845.
- transcriptional activation of the mouse zygotic

genome: CHRISTIANS, CAMPION, THOMPSON AND RENARD 121, 113.

transcriptional repression in germ cells: O'NEILL AND ARTZT 121, 561.

two CDC25 homologues:

WICKRAMASINGHE, BECKER, ERNST, RESNICK, CENTANNI, TESSAROLLO, GRABEL AND DONOVAN 121, 2047.

VCAM-1-deficient mice: KWEE, BALDWIN, SHEN, STEWART, BUCK, BUCK AND LABOW 121, 489.

Mouse egg

activation: AYABE, KOPF AND SCHULTZ 121, 2233.

Mouse mutant

inner ear defects of trkB and trkC mutant mice: SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

Mouse oocyte

sperm-induced Ca²⁺ rises at metaphase: JONES, CARROLL, MERRIMAN, WHITTINGHAM AND KONO 121, 3259.

MRF4/herculin/Mvf-6

MRF4 disruption causes myotome and rib defects: PATAPOUTIAN, YOON, MINER, WANG, STARK AND WOLD 121, 3347.

mRNA localization

gratuitous localization of *K10* mRNA: SERANO AND COHEN **121**, 3013. *K10* mRNA localization: SERANO AND COHEN **121**, 3809. regulation of *oskar* translation: RONGO,

GAVIS AND LEHMANN 121, 2737.

mRNA transport

K10 mRNA localization: SERANO AND COHEN 121, 3809.

msl genes

vir is a regulator of Sxl in Drosophila: HILFIKER, AMREIN, DUBENDORFER, SCHNEITER AND NOTHIGER 121, 4017.

regulation of dosage compensation: BASHAW AND BAKER 121, 3245.

Msx1

expression of Msx genes in mouse regeneration: REGINELLI, WANG, SASSOON AND MUNEOKA 121, 1065.

Msx2

expression of Msx genes in mouse regeneration: REGINELLI, WANG, SASSOON AND MUNEOKA 121, 1065.

msx genes and zebrafish fin regeneration: AKIMENKO, JOHNSON, WESTERFIELD AND FKKER 121 347

multiple edematous wings

genetic analysis of α_{PSI}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM, FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.

Murine pancreas

MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121, 11.

Muscle

connective tissue homeobox genes: OLIVER, WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN, ZIPURSKY AND GRUSS 121, 693. demethylation of a muscle-specific transgene: GRIESHAMMER, MCGREW AND ROSENTHAL 121, 2245.

desmin and myofibril-membrane attachment: CARY AND KLYMKOWSKY 121, 1041.

founder cells and *Drosophila* myogenesis: RUSHTON, DRYSDALE, ABMAYR, MICHELSON AND BATE 121, 1979.

induction in *Drosophila*: BAKER AND SCHUBIGER 121, 1387.

mesodermal patterning in *Drosophila*: BORKOWSKI, BROWN AND BATE 121, 4183.

Muscle attachment

genetic analysis of α_{PS1}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM, FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.

Muscle development

innervation is essential for male muscle: CURRIE AND BATE 121, 2549.

Muscle of Lawrence

abnormal MOL genesis in *fruitless* flies: TAYLOR AND KNITTEL **121**, 3079.

Muscle spindle afferent

muscle sensory neurons require NT-3 to survive: OAKLEY, GARNER, LARGE AND FRANK 121, 1341.

Musculature

myoblast fusion and rost gene expression in Drosophila: PAULULAT, BURCHARD AND RENKAWITZ-POHL 121, 2611.

Mutagenesis

Cis-regulatory control of the SM50 gene: MAKABE, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1957.

GATA-4 and endoderm differentiation: SOUDAIS, BIELINSKA, HEIKINHEIMO, MACARTHUR, NARITA, SAFFITZ, SIMON, LEIDEN AND WILSON 121, 3877.

Mutant

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.

Myelin

periaxin in myelinating Schwann cells: SCHERER, XU, BANNERMAN, SHERMAN AND BROPHY 121, 4265.

Myelin basic protein

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

Myelinogenesis

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

myf-5

lineage restriction of myf-5 in the brain: TAJBAKHSH AND BUCKINGHAM 121, 4077.

Myoblast

myoblast fusion and *rost* gene expression in *Drosophila:* PAULULAT, BURCHARD AND RENKAWITZ-POHL **121**, 2611.

myoblast city

founder cells and *Drosophila* myogenesis: RUSHTON, DRYSDALE, ABMAYR, MICHELSON AND BATE **121**, 1979.

myoD

regulation of the myoD gene in mouse embryos: GOLDHAMER, BRUNK, FAERMAN, KING, SHANI AND EMERSON 121, 637. Myoepithelial cell

HGF/SF in mammary development: NIRANJAN, BULUWELA, YANT, PERUSINGHE, ATHERTON, PHIPPARD, DALE, GUSTERSON AND KAMALATI 121, 2897.

PTHrP impairs breast development: WYSOLMERSKI, MCCAUGHERN-CARUCCI, DAIFOTIS, BROADUS AND PHILBRICK 121, 3539.

Myogenesis

abnormal MOL genesis in *fruitless* flies: TAYLOR AND KNITTEL **121**, 3079.

founder cells and *Drosophila* myogenesis: RUSHTON, DRYSDALE, ABMAYR, MICHELSON AND BATE 121, 1979.

induction of cardiac myogenesis: SCHULTHEISS, XYDAS AND LASSAR 121, 4203.

muscle induction in *Drosophila*: BAKER AND SCHUBIGER 121, 1387.

paraxial mesoderm myogenic induction: STERN, BROWN AND HAUSCHKA 121, 3675

regulation of the myoD gene in mouse embryos: GOLDHAMER, BRUNK, FAERMAN, KING, SHANI AND EMERSON 121, 637.

wingless and myogenesis: BAYLIES, MARTINEZ ARIAS AND BATE 121, 3829.

Myogenic bHLH

axial tissues induce myogenic bHLH genes: MUNSTERBERG AND LASSAR 121, 651.

Myogenic cell

myogenic cell migration in chick embryos: HAYASHI AND OZAWA 121, 661.

Myogenic conversion

TAJBAKHSH AND BUCKINGHAM 121, 4077.

Myosin

rhabdomere assembly requires rhodopsin: KUMAR AND READY 121, 4359.

Myosin regulatory light chain

myosin II in oogenesis and early cleavage: WHEATLEY, KULKARNI AND KARESS 121, 1937

Myotomal muscle

desmin and myofibril-membrane attachment: CARY AND KLYMKOWSKY 121, 1041.

Myotome

MRF4 disruption causes myotome and rib defects: PATAPOUTIAN, YOON, MINER, WANG, STARK AND WOLD 121, 3347. NT-3 and dermis development: BRILL, KALANDE CAPMENT VOLSCHACK

KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM **121**, 2583.

nPh

pRb in regulation of N-myc expression by TGF-β: SERRA AND MOSES 121, 3057.

nanos

evolutionary conservation of *nanos*: CURTIS, APFELD AND LEHMANN **121**, 1899.

Nasal placode

Pax-6 in eye and nasal development: GRINDLEY, DAVIDSON AND HILL 121, 1433.

nautilus

myoblast fusion and rost gene expression in Drosophila: PAULULAT, BURCHARD AND RENKAWITZ-POHL 121, 2611. Na+/H+ exchanger

pH_i decrease important for axis formation in Xenopus: GUTKNECHT, KOSTER, TERTOOLEN, DE LAAT AND DURSTON 121, 1911.

NCAM

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

Nematocytes

hydra achaete-scute homolog: GRENS, MASON, MARSH AND BODE 121, 4027.

Nematode

mosaic analysis of *let-23* gene function: KOGA AND OHSHIMA **121**, 2655.

Nemertea

spiralian cell fate specification: MARTINDALE AND HENRY 121, 3175.

Nephron epithelium

cell commitment in kidney development: QIAO, COHEN AND HERZLINGER 121, 3207.

Nerve cell differentiation

head activator signal transduction: GALLIOT, WELSCHOF, SCHUCKERT, HOFFMEISTER AND SCHALLER 121, 1205.

Nerve growth cone

dynamics of thin filopodia during sea urchin gastrulation: MILLER, FRASER AND MCCLAY 121, 2501.

Nerve growth factor

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

Nerve growth factor receptor

periaxin in myelinating Schwann cells: SCHERER, XU, BANNERMAN, SHERMAN AND BROPHY 121, 4265. Nervous system

chimeric mice with excess neuropilin: KITSUKAWA, SHIMONO, KAWAKAMI,

KONDOH AND FUJISAWA 121, 4309. dally, a putative integral membrane proteoglycan, affects cell division: NAKATO, FUTCH AND SELLECK 121,

hormonal induction of Dopa decarboxylase in Drosophila: HODGETTS, CLARK, O'KEEFE, SCHOULS, CROSSGROVE, GUILD AND VON KALM 121, 3913.

Nervous system development

cell cycle dependence of eve expression: WEIGMANN AND LEHNER 121, 3713.

developmental expression of mouse stromelysin-3 RNA: LEFEBVRE, REGNIER, CHENARD, WENDLING, CHAMBON, BASSET AND P. 121, 947.

Neural competence

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813.

Neural crest

cadherins: NAKAGAWA AND TAKEICHI 121, 1321.

cell migration: BIRGBAUER, SECHRIST, BRONNER-FRASER AND FRASER 121, 935.

dorsalization of the neural tube by non-neural ectoderm: DICKINSON, SELLECK, MCMAHON AND BRONNER-FRASER 121, 2099.

Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

RA alters hindbrain crest cell migration: LEE, OSUMI-YAMASHITA, NINOMIYA, MOON, ERIKSSON AND ETO 121, 825.

regeneration: SECHRIST, NIETO, ZAMANIAN AND BRONNER-FRASER 121, 4103.

role for PNA-binding molecules in migration of avian trunk neural crest: KRULL, COLLAZO, FRASER AND BRONNER-FRASER 121, 3733.

roles of SIF in melanocyte dispersal and survival: WEHRLE-HALLER AND WESTON 121, 731.

somitomere and neural crest cells: TRAINOR AND TAM 121, 2569.

versican localization in barrier tissues: LANDOLT, VAUGHAN, WINTERHALTER AND ZIMMERMANN 121, 2303.

Neural crest migration

only melanocytes migrate dorsolaterally: ERICKSON AND GOINS 121, 915.

Neural development

LAMP interacts selectively with limbic neurons: ZHUKAREVA AND LEVITT 121, 1161.

Neural expression

neural expression of ceh-10: SVENDSEN AND MCGHEE 121, 1253.

Neural fold

induction of prospective neural crest:
MAYOR, MORGAN AND SARGENT
121, 767.

neural crest cadherins: NAKAGAWA AND TAKEICHI 121, 1321.

neural crest regeneration: SECHRIST, NIETO, ZAMANIAN AND BRONNER-FRASER 121, 4103.

Neural induction

FGF and noggin neural induction and patterning: LAMB AND HARLAND 121, 3627.

FGF signalling in *Xenopus*: KENGAKU AND OKAMOTO **121**, 3121.

GSK3β and ectodermal cell fate determination: ITOH, TANG, NEEL AND SOKOL **121**, 3979.

hedgehog gene family of Xenopus: EKKER, MCGREW, LAI, LEE, VON KESSLER, MOON AND BEACHY 121, 2337.

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813.

induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

neural patterning by hedgehog: LAI, EKKER, BEACHY AND MOON 121, 2349.

Otx2 and neuroectoderm specification: ACAMPORA, MAZAN, LALLEMAND, AVANTAGGIATO, MAURY, SIMEONE AND BRULET 121, 3279.

pattern in noggin-induced neural tissue: KNECHT, GOOD, DAWID AND HARLAND 121, 1927.

XIPOU 2 has direct neuralizing activity: WITTA, AGARWAL AND SATO 121,

Neural patterning

anteroposterior specification in the CNS: COX AND HEMMATI-BRIVANLOU 121, 4349 zebrafish neural fate maps: WOO AND FRASER 121, 2595.

Neural plate border

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

Neural retina

ligands of thyroid receptors induce cones: KELLEY, TURNER AND REH 121, 3777.

Neural specificity

unc-4 control of VA motor neuron development: MILLER III AND NIEMEYER 121, 2877.

Neural tissue

induction in chick Hensen's node: STOREY, SELLECK AND STERN 121, 417.

Neural tube

axial tissues induce myogenic bHLH genes: MUNSTERBERG AND LASSAR 121, 651

Hoxc-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4339.

neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER 121, 525.

paraxial mesoderm myogenic induction: STERN, BROWN AND HAUSCHKA 121, 3675

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681

RBP-Jw gene knock-out mice: OKA, NAKANO, WAKEHAM, LUIS DE LA POMPA, MORI, SAKAI, OKAZAKI, KAWAICHI, SHIOTA, MAK AND HONIO 121, 3291

Neuralizing activity

properties of Xenopus dishevelled: SOKOL, KLINGENSMITH, PERRIMON AND ITOH 121, 1637.

Neurite growth

axonal guidance in chick retina: STIER AND SCHLOSSHAUER 121, 1443.

LAMP interacts selectively with limbic neurons: ZHUKAREVA AND LEVITT 121, 1161.

neurotrophins affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

Neuroblast

activation of neuroblast proliferation: DATTA 121, 1173.
cell cycle dependence of *eve* expression:

WEIGMANN AND LEHNER 121, 3713.

cortical localization of pros at mitosis: SPANA AND DOE 121, 3187.

downstream effects of ET-B deletion: KAPUR, SWEETSER, DOGGETT, SIEBERT AND PALMITER 121, 3787.

evolution of the insect CNS: BROADUS AND DOE 121, 3989.

numb autonomously specifies cell fate: SPANA, KOPCZYNSKI, GOODMAN AND DOE 121, 3489.

regulation of gene expression in the CNS: CUI AND DOE 121, 3233.

Serrate activates Notch: GU, HUKRIEDE AND FLEMING 121, 855.

Neurodegeneration

apoptotic death in lurcher Purkinje cells: NORMAN, FENG, CHENG, GUBBAY, CHAN AND HEINTZ 121, 1183. Neuroectoderm

neural fate of distal epiblast: QUINLAN, WILLIAMS, TAN AND TAM 121, 87.

Neurofibroma

fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

Neurofibromatosis

fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

Neurogenesis

Caenorhabditis elegans mab-21 gene: CHOW, HALL AND EMMONS 121, 3615.

clonal analysis of *Su(H)*: SCHWEISGUTH **121**, 1875.

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121, 3549.

GPA receptor function and expression: HELLER, FINN, HUBER, NISHI, GEISSEN, PUSCHEL AND ROHRER 121, 2681.

ligands of thyroid receptors induce cones: KELLEY, TURNER AND REH 121, 3777.

neurogenic genes control *l'sc* and mesectoderm: MARTIN-BERMUDO, CARMENA AND JIMENEZ **121**, 219.

Notch and wingless in the fly wing: RULIFSON AND BLAIR 121, 2813.

PNS lineages in *Drosophila*: BREWSTER AND BODMER 121, 2923.

regulatory interactions between *cut* and *poxn*: VERVOORT, ZINK, PUJOL, VICTOIR, DUMONT, GHYSEN AND DAMBLY-CHAUDIERE 121, 3111.

Neurogenic gene

cell type specification in the *Drosophila* endoderm: TEPASS AND HARTENSTEIN **121**, 393.

control *l'sc* and mesectoderm: MARTIN-BERMUDO, CARMENA AND JIMENEZ 121, 219.

Neuron

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887

Neuron precursors

NPY expression and cell lineage: HALL AND MACPHEDRAN 121, 2361.

Neuron specification

seven-up requires Ras activation: BEGEMANN, MICHON, VOORN, WEPF AND MLODZIK 121, 225.

Neuronal death

multiple cell cycle events precede targetrelated neuronal death: HERRUP AND BUSSER 121 2385

Neuronal determination

yan function in division versus differentiation: ROGGE, GREEN, URANO, HORN-SABAN, MLODZIK, SHILO, HARTENSTEIN AND BANERJEE 121, 3047

Neuronal development

apterous and neuronal pathfinding: LUNDGREN, CALLAHAN, THOR AND THOMAS 121, 1769.

Neuronal differentiation

control of cortical neuronal phenotype: FERRI AND LEVITT 121, 1151. pattern in noggin-induced neural tissue: KNECHT, GOOD, DAWID AND HARLAND 121, 1927.

zebrafish nk2.2 gene: BARTH AND WILSON 121, 1755.

Neuronal identity

regulatory interactions between cut and poxn: VERVOORT, ZINK, PUJOL, VICTOIR, DUMONT, GHYSEN AND DAMBLY-CHAUDIERE 121, 3111.

Neuronal migration

in the cerebral cortex: O'ROURKE, SULLIVAN, KAZNOWSKI, JACOBS AND MCCONNELL 121, 2165.

Neuropeptide

NPY expression and cell lineage: HALL AND MACPHEDRAN 121, 2361.

sensory deficiencies in trk double mutant mice: MINICHIELLO, PIEHL, VAZQUEZ, SCHIMMANG, HOKFELT, REPRESA AND KLEIN 121, 4067.

Neurotransmitter

development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763.

Neurotrophin

affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

BDNF regulation by GABA: BERNINGER, MARTY, ZAFRA, DA PENHA BERZAGHI, THOENEN AND LINDHOLM 121, 2327.

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

sensory deficiencies in trk double mutant mice: MINICHIELLO, PIEHL, VAZQUEZ, SCHIMMANG, HOKFELT, REPRESA AND KLEIN 121, 4067.

truncated trkB in the developing chick: BIFFO, OFFENHAUSER, CARTER AND BARDE 121, 2461.

Neurotrophin-3

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II **121**, 2187.

muscle sensory neurons require NT-3 to survive: OAKLEY, GARNER, LARGE AND FRANK 121, 1341.

Neurulation

neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER 121, 525.

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.

NF1

fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

NGF

neurotrophins affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

Nicotiana

genetic ablation of petal and stamen primordia: DAY, GALGOCI AND IRISH 121, 2887.

ninaE

rhabdomere assembly requires rhodopsin: KUMAR AND READY 121, 4359.

Nk-homeobox

XNkx-2.3, a second vertebrate homologue of tinman: EVANS, YAN, MURILLO, PONCE AND PAPALOPULU 121, 3889. Nk2

zebrafish nk2.2 gene: BARTH AND WILSON 121, 1755.

Nodal

goosecoid and lim1 expression and axis duplication in zebrafish: TOYAMA, O'CONNELL, WRIGHT, KUEHN AND DAWID 121, 383.

Nodal-related signaling in mesoderm patterning: JONES, KUEHN, HOGAN, SMITH AND WRIGHT 121, 3651.

Node

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

Otx2 and neuroectoderm specification: ACAMPORA, MAZAN, LALLEMAND, AVANTAGGIATO, MAURY, SIMEONE AND BRULET 121, 3279.

noggin

FGF and noggin neural induction and patterning: LAMB AND HARLAND 121, 3627.

pattern in noggin-induced neural tissue: KNECHT, GOOD, DAWID AND HARLAND 121, 1927.

XIPOU 2 has direct neuralizing activity: WITTA, AGARWAL AND SATO 121,

noggin

hedgehog gene family of Xenopus: EKKER, MCGREW, LAI, LEE, VON KESSLER, MOON AND BEACHY 121, 2337.

induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

Nonautonomy

duels in *Caenorhabditis* development: SCHNABEL **121**, 2219.

Nose

expression of orphan nuclear receptor *tailless* in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.

Notch

DSL protein structure/function: FITZGERALD AND GREENWALD 121, 4275.

functional analysis of *Drosophila* Deltex: MATSUNO. DIEDERICH, GO, BLAUMUELLER AND ARTAVANIS-TSAKONAS 121, 2633.

organizing activity in the *Drosophila* wing: DIAZ-BENJUMEA AND COHEN 121, 4215.

Notch1

in somite segmentation: CONLON, REAUME AND ROSSANT 121, 1533.

Notch

and wingless in the fly wing: RULIFSON AND BLAIR 121, 2813.

clonal analysis of *Su(H)*: SCHWEISGUTH **121**, 1875.

requirements for *E(spl)bHLH* expression: JENNINGS, DE CELIS, DELIDAKIS, PREISS AND BRAY **121**, 3745.

retinal determination by Notch selection: AUSTIN, FELDMAN, IDA JR. AND CEPKO 121, 3637.

Serrate activates Notch: GU, HUKRIEDE AND FLEMING 121, 855.

Notochord

amphioxus Brachyury genes: HOLLAND,

- KOSCHORZ, HOLLAND AND HERRMANN 121, 4283.
- axial tissues induce myogenic bHLH genes: MUNSTERBERG AND LASSAR 121, 651
- cell autonomy of fth in axial mesoderm: HALPERN, THISSE, HO, THISSE, RIGGLEMAN, TREVARROW, WEINBERG, POSTLETHWAIT AND KIMMEL 121, 4257.
- induction of notochord behavior and differentiation: DOMINGO AND KELLER 121, 3311.
- paraxial mesoderm myogenic induction: STERN, BROWN AND HAUSCHKA 121, 3675.

NT-3

neurotrophins affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

nubbin

proximal-distal pattern in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN 121, 589.

Nuclear hormone receptor

expression of orphan nuclear receptor tailless in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.

Nuclear structure

biogenesis of the coiled body: FERREIRA AND CARMO-FONSECA 121, 601.

Nuclear transfer

chimerism with mouse male fetal germ cells: KATO AND TSUNODA 121, 779.

Nucleolus

biogenesis of the coiled body: FERREIRA AND CARMO-FONSECA 121, 601.

Nucleus

nuclear Ca²⁺-releasing activity in embryos: KONO, CARROLL, SWANN AND WHITTINGHAM **121**, 1123.

numb

- autonomously specifies cell fate: SPANA, KOPCZYNSKI, GOODMAN AND DOE 121 3489
- cortical localization of pros at mitosis: SPANA AND DOE 121, 3187.

numb

PNS lineages in *Drosophila*: BREWSTER AND BODMER **121**, 2923.

Nurse cell dumping

myosin II in oogenesis and early cleavage: WHEATLEY, KULKARNI AND KARESS 121, 1937.

O4 antibody

- oligodendrocyte development in chick spinal cord: ONO, BANSAL, PAYNE, RUTISHAUSER AND MILLER 121, 1743.
- Odd-skipped

numb autonomously specifies cell fate: SPANA, KOPCZYNSKI, GOODMAN AND DOE 121, 3489.

Oligodendroblast

astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

Oligodendrocyte

- astroglial oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.
- development in chick spinal cord: ONO, BANSAL, PAYNE, RUTISHAUSER AND MILLER 121, 1743.
- Oligodendrocyte-type-2 astrocyte (O-2A) analysis of DNA-binding proteins in O-2A

differentiation: BARNETT, ROSARIO, DOYLE, KILBEY, LOVATT AND GILLESPIE 121, 3969.

Ommatidia

morphogenetic furrow and polarity in Drosophila eye: CHANUT AND HEBERLEIN 121, 4085.

Ommatidial rotation

furrow progression and ommatidial polarity: STRUTT AND MLODZIK 121, 4247.

Ommatidium

seven-up function and ras signaling: KRAMER, WEST AND HIROMI 121, 1361

Oncogenes

FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

Ontogeny

homeoprotein expression in pancreas: GUZ, MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121, 11.

Oocyte

Drosophila ovarian follicle stem cells: MARGOLIS AND SPRADLING 121, 3797.

metaphase I arrest in maturing oocytes: HAMPL AND EPPIG 121, 925.

nuclear Ca²⁺-releasing activity in embryos: KONO, CARROLL, SWANN AND WHITTINGHAM **121**, 1123.

two pathways for vegetal localization: KLOC AND ETKIN 121, 287.

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

Oocyte-specific gene expression

coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.

Oogenesis

- K10 mRNA localization: SERANO AND COHEN 121, 3809.
- myosin II in oogenesis and early cleavage: WHEATLEY, KULKARNI AND KARESS 121, 1937.
- soma-germline interactions in oogenesis: NAGOSHI, PATTON, BAE AND GEYER 121, 579.
- translational control of Xenopus FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI 121, 1775.
- two pathways for vegetal localization: KLOC AND ETKIN 121, 287.

Opsin immunoreactivity

CNTF promotes photoreceptor development: FUHRMANN, KIRSCH AND HOFMANN 121, 2695.

Optic axons

polysialic acid in the optic pathway: YIN, WATANABE AND RUTISHAUSER 121, 3439.

Optic recess

mouse eye homeobox gene: OLIVER, MAILHOS, WEHR, COPELAND, JENKINS AND GRUSS 121, 4045.

Optic tectum

- development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763. polysialic acid in the optic pathway: YIN,
- WATANABE AND RUTISHAUSER 121, 3439.

retinotectal interactions in vitro: YAMAGATA AND SANES 121, 189.

Optic tract

polysialic acid in the optic pathway: YIN, WATANABE AND RUTISHAUSER 121, 3439.

Optic vesicle

Pax-6 in eye and nasal development: GRINDLEY, DAVIDSON AND HILL 121, 1433.

Organizer

anti-dorsalizing morphogenetic protein: MOOS JR., WANG AND KRINKS 121, 4293.

endoderm in *Xenopus* cardiogenesis: NASCONE AND MERCOLA **121**, 515.

Organizing activity

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL 121, 2265.

Organogenesis

- CLV3 regulates meristem development: CLARK, RUNNING AND MEYEROWITZ 121, 2057.
- gonadal precursor cells in *Drosophila*: BOYLE AND DINARDO 121, 1815.
- PTHrP impairs breast development: WYSOLMERSKI, MCCAUGHERN-CARUCCI, DAIFOTIS, BROADUS AND PHILBRICK 121, 3539.

Orphan nuclear receptor

expression of orphan nuclear receptor *tailless* in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ **121**, 839.

orthodenticle

orthodenticle in *Drosophila* head development: ROYET AND FINKELSTEIN 121, 3561. induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

oskar

regulation of *oskar* translation: RONGO, GAVIS AND LEHMANN 121, 2737.

translational control of *oskar*: MARKUSSEN, MICHON, BREITWIESER AND EPHRUSSI **121**, 3723.

Osteogenesis

developmental expression of mouse stromelysin-3 RNA: LEFEBVRE, REGNIER, CHENARD, WENDLING, CHAMBON, BASSET AND P. 121, 947.

Osteoporosis

LIFR mutation results in perinatal death: WARE, HOROWITZ, RENSHAW, HUNT, LIGGITT, KOBLAR, GLINIAK, MCKENNA, PAPAYANNOPOULOU, THOMA, CHENG, DONOVAN, PESCHON, BARTLETT, WILLIS 121, 1283.

otu

soma-germline interactions in oogenesis: NAGOSHI, PATTON, BAE AND GEYER 121, 579.

Otx2

GSK3β and ectodermal cell fate determination: ITOH, TANG, NEEL AND SOKOL 121, 3979.

Otx2

and neuroectoderm specification: ACAMPORA, MAZAN, LALLEMAND, AVANTAGGIATO, MAURY, SIMEONE AND BRULET 121, 3279.

Xotx2 and the fate of anterior regions: PANNESE, POLO, ANDREAZZOLI,

4436 Subject Index

VIGNALI, KABLAR, BARSACCHI AND BONCINELLI 121, 707.

Ovarian tumor

soma-germline interactions in oogenesis: NAGOSHI, PATTON, BAE AND GEYER 121, 579.

Ovary

cell rearrangement in ovary development: GODT AND LASKI 121, 173.

Drosophila ovarian follicle stem cells: MARGOLIS AND SPRADLING 121, 3707

Overexpression

chimeric mice with excess neuropilin: KITSUKAWA, SHIMONO, KAWAKAMI, KONDOH AND FUJISAWA 121, 4309.

ovo

soma-germline interactions in oogenesis: NAGOSHI, PATTON, BAE AND GEYER 121. 579.

p34cdc2 kinase

metaphase I arrest in maturing oocytes: HAMPL AND EPPIG 121, 925.

Paired box

Pax proteins and eye development: MACDONALD, BARTH, XU, HOLDER, MIKKOLA AND WILSON 121, 3267.

Pan-neural gene

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121, 3549.

Pancreas

developmental biology of the pancreas: SLACK 121, 1569.

Pancreatic cell lineage

homeoprotein expression in pancreas: GUZ, MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121. 11.

Pancreatic islets

homeoprotein expression in pancreas: GUZ, MONTMINY, STEIN, LEONARD, GAMER, WRIGHT AND TEITELMAN 121, 11.

Pancreatic polypeptide

developmental biology of the pancreas: SLACK 121, 1569.

Paraxial mesoderm

Hox genes and vertebral transposition: BURKE, NELSON, MORGAN AND TABIN 121, 333.

somitomere and neural crest cells: TRAINOR AND TAM 121, 2569.

Parietal cell

TGFα alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

Parietal endoderm

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

Parthenogenetic

H19 imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121, 4195.

Parthenote

stem cell defects: NEWMAN-SMITH AND WERB 121, 2069.

patched

morphogenetic furrow and polarity in *Drosophila* eye: CHANUT AND HEBERLEIN 121, 4085. morphogenetic furrow and tissue polarity: MA AND MOSES 121, 2279.

ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161.

Dathfinding

Lazarillo: a neuronal GPI-linked lipocalin: GANFORNINA, SANCHEZ AND BASTIANI 121, 123.

Pattern formation

a polarising induction: HUTTER AND SCHNABEL 121, 1559.

adult requirements for *exd*: RAUSKOLB, SMITH, PEIFER AND WIESCHAUS **121**, 3663.

CLV3 regulates meristem development: CLARK, RUNNING AND MEYEROWITZ 121, 2057.

dorsalization of the neural tube by non-neural ectoderm: DICKINSON, SELLECK, MCMAHON AND BRONNER-FRASER 121, 2009.

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL **121**, 2265.

frizzled and pattern formation in Drosophila eye: ZHENG, ZHANG AND CARTHEW 121, 3045.

genetic ablation of petal and stamen primordia: DAY, GALGOCI AND IRISH 121, 2887.

head formation in *Hydra*: TECHNAU AND HOLSTEIN **121**, 1273.

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

initiation of the proximodistal axis in insect legs: CAMPBELL AND TOMLINSON 121, 619.

ld disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121,

left-right asymmetry in the Caenorhabditis embryo: HUTTER AND SCHNABEL 121, 3417.

longitudinal organization of the brain: SHIMAMURA, HARTIGAN, MARTINEZ, PUELLES AND RUBENSTEIN 121, 3923.

mesoderm patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429.

Notch and wingless in the fly wing: RULIFSON AND BLAIR 121, 2813.

Notch1 in somite segmentation: CONLON, REAUME AND ROSSANT 121, 1533.

organizing activity in the *Drosophila* wing: DIAZ-BENJUMEA AND COHEN 121,

orthodenticle in *Drosophila* head development: ROYET AND FINKELSTEIN 121, 3561.

planar polarity in *Drosophila*: WEHRLI AND TOMLINSON 121, 2451.

proximal-distal pattern in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN 121, 589.

regulation of S phase by cyclin E: RICHARDSON, O'KEEFE, MARTY AND SAINT 121, 3371.

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

Patterning

genetic control of cerebellar patterning: MILLEN, HUI AND JOYNER 121, 3935.

Pax

proteins and eye development:

MACDONALD, BARTH, XU, HOLDER, MIKKOLA AND WILSON 121, 3267.

pax-1

Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.

Pax-2

required for urogenital development: TORRES, GOMEZ-PARDO, DRESSLER AND GRUSS 121, 4057.

repression of Pax-2 by WT1: RYAN, STEELE-PERKINS, MORRIS, RAUSCHER III AND DRESSLER 121, 867.

Pax-6

in eye and nasal development: GRINDLEY, DAVIDSON AND HILL 121, 1433.

pax

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

PDGF

in Xenopus gastrulation: ATALIOTIS, SYMES, CHOU, HO AND MERCOLA 121, 3099

pebble

regulation of gene expression in the CNS: CUI
AND DOE 121, 3233.

pelle kinase

pelle activation at the plasma membrane: GALINDO, EDWARDS, GILLESPIE AND WASSERMAN 121, 2209.

pelota

meiotic G₂/M arrest: EBERHART AND WASSERMAN 121, 3477.

Peptide YY

developmental biology of the pancreas: SLACK 121, 1569.

Peri-implantation development

parthenote stem cell defects: NEWMAN-SMITH AND WERB 121, 2069.

Periclinal chimera

floricaula in single cell layers activates downstream genes: HANTKE, CARPENTER AND COEN 121, 27.

Perineurium

fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

Perioptic mesenchyme

TGFα induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.

Peripheral nerve

periaxin in myelinating Schwann cells: SCHERER, XU, BANNERMAN, SHERMAN AND BROPHY 121, 4265. projections and central neurogenesis:

BECKER, BERLINER, NITABACH, GAN AND MACAGNO 121, 359.

Peripheral nervous system

clonal analysis of *Su(H)*: SCHWEISGUTH **121**, 1875.

neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER 121, 525.

PNS lineages in *Drosophila*: BREWSTER AND BODMER 121, 2923.

regulatory interactions between cut and poxn: VERVOORT, ZINK, PUJOL, VICTOIR, DUMONT, GHYSEN AND DAMBLY-CHAUDIERE 121, 3111. Perivitelline space

Snake zymogen and activated forms: SMITH, GIORDANO, SCHWARTZ AND DELOTTO 121, 4127.

Permeases

haematopoietic development: GUIMARES, BAZAN, ZLOTNIK, WILES, GRIMALDI, LEE AND MCCLANAHAN 121, 3335.

PG-M

versican localization in barrier tissues: LANDOLT, VAUGHAN, WINTERHALTER AND ZIMMERMANN 121, 2303.

pH regulation

pH_i decrease important for axis formation in Xenopus: GUTKNECHT, KOSTER, TERTOOLEN, DE LAAT AND DURSTON 121, 1911.

Phagocytic haemocyte

midline glial cell death: SONNENFELD AND JACOBS 121, 569.

phantastica

control of dorsoventrality in leaves: WAITES AND HUDSON 121, 2143.

Pharyngeal arch

Fg/8 expression in the mouse embryo: CROSSLEY AND MARTIN 121, 439. FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

Phenotypic marker

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887.

Phosphatidylinositol-specific phospholip LAMP interacts selectively with limbic neurons: ZHUKAREVA AND LEVITT

121, 1161.

Phosphotyrosine

tyrosine phosphatases in axonogenesis: STOKER, GEHRIG, HAJ AND BAY 121, 1833.

Photoreceptor

CNTF promotes photoreceptor development: FUHRMANN, KIRSCH AND HOFMANN 121, 2695.

frizzled and pattern formation in Drosophila eye: ZHENG, ZHANG AND CARTHEW 121, 3045.

rhabdomere assembly requires rhodopsin: KUMAR AND READY 121, 4359.

the proneural gene for chordotonal organs and photoreceptors: JARMAN, SUN, JAN AND JAN 121, 2019.

Photosensitivity

neural expression of *ceh-10*: SVENDSEN AND MCGHEE **121**, 1253.

Phox2

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887.

phylotypic stage

evolution of the insect CNS: BROADUS AND DOE 121, 3989.

pie-1

the EMS cell's response to induction: GOLDSTEIN 121, 1227.

piebald lethal

downstream effects of ET-B deletion: KAPUR, SWEETSER, DOGGETT, SIEBERT AND PALMITER 121, 3787. pinocchio

radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

Pintallavis

mesodermal patterning by *Brachyury* and *Pintallavis*: O'REILLY, SMITH AND CUNLIFFE **121**, 1351.

PKC

sulphated proteoglycans in kidney development: DAVIES, LYON, GALLAGHER AND GARROD 121, 1507.

Placenta

α₄ integrin-deficient mice: YANG, RAYBURN AND HYNES 121, 549. early placental development in mouse embryos: DOWNS AND GARDNER 12

early placental development in mouse embryos: DOWNS AND GARDNER 121, 407.

Hxt is a bHLH regulator of trophoblast: CROSS, FLANNERY, BLANAR, STEINGRIMSSON, JENKINS, COPELAND, RUTTER AND WERB 121, 2513.

VCAM-1-deficient mice: KWEE, BALDWIN, SHEN, STEWART, BUCK, BUCK AND LABOW 121, 489.

Planar polarity

in Drosophila: WEHRLI AND TOMLINSON 121, 2451.

Planar signalling

induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

Plasticity

of IGF2 imprinting status: EKSTROM, CUI, LI AND OHLSSON 121, 309.

Wingless function in the leg disc: WILDER AND PERRIMON 121, 477.

Platelet-derived growth factor

astrogliał oligodendrogliotrophic factors: GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

inhibition of PDGF-A translation: SOUZA, KULISZEWSKI, WANG, TSEU, TANSWELL AND POST 121, 2559.

Pleiotrophin

midkine and HB-GAM in mouse embryos: MITSIADIS, SALMIVIRTA, MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN AND THESLEFF 121, 37.

PNA

role for PNA-binding molecules in migration of avian trunk neural crest: KRULL, COLLAZO, FRASER AND BRONNER-FRASER 121, 3733.

PNS

neurotrophins affect neurite patterns: TUTTLE AND MATTHEW 121, 1301.

repo and glia function: HALTER, URBAN, RICKERT, NER, ITO, TRAVERS AND TECHNAU 121, 317.

requirements for *E(spl)bHLH* expression: JENNINGS, DE CELIS, DELIDAKIS, PREISS AND BRAY **121**, 3745.

role of proneural genes in *Drosophila*: GIANGRANDE **121**, 429.

the proneural gene for chordotonal organs and photoreceptors: JARMAN, SUN, JAN AND JAN 121, 2019.

Polarising region

development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA- BELMONTE, DUPREZ AND WOLPERT 121, 4329.

Polarity

frizzled and pattern formation in Drosophila eye: ZHENG, ZHANG AND CARTHEW 121 3045

morphogenetic furrow and polarity in Drosophila eye: CHANUT AND HEBERLEIN 121, 4085.

morphogenetic furrow and tissue polarity: MA AND MOSES 121, 2279.

Polarization

calcium channels and the cell cycle in blastomeres: YAZAKI, TOSTI AND DALE 121, 1827.

Polarizing activity

Ist^D limbs contain ectopic ZPA: CHAN, LAUFER, TABIN AND LEDER 121, 1971. relation of formins to AER and ZPA: CHAN, WYNSHAW-BORIS AND LEDER 121, 3151

Polycomb

function of Polycomb in mice and flies: MULLER, GAUNT AND LAWRENCE 121, 2847.

Polycomb-binding sites in the BX-C: CHIANG, O'CONNOR, PARO, SIMON AND BENDER 121, 1681.

Polycomb

Dlw specifies dorsal wing identity in Drosophila: TIONG, NASH AND BENDER 121, 1649.

Polydactyly

in CRABP-II mutant mice: FAWCETT, PASCERI, FRASER, COLBERT, ROSSANT AND GIGUERE 121, 671.

polyhomeotic as a target of engrailed: SERRANO, BROCK,

DEMERET, DURA, RANDSHOLT, KORNBERG AND MASCHAT 121, 1691.

Polymerase chain reaction

haematopoietic development: GUIMARES, BAZAN, ZLOTNIK, WILES, GRIMALDI, LEE AND MCCLANAHAN 121, 3335.

Polysialic acid

in the optic pathway: YIN, WATANABE AND RUTISHAUSER 121, 3439.

Polytene chromosome

Drosophila E63 genes: ANDRES AND THUMMEL 121, 2667. functions of E74 during Drosophila

metamorphosis: FLETCHER, BURTIS, HOGNESS AND THUMMEL 121, 1455.

porcupine

Wingless regulation in *Drosophila*: MANOUKIAN, YOFFE, WILDER AND PERRIMON **121**, 4037.

Position-effect

su(Hw) protein and dosage compensation: ROSEMAN, SWAN AND GEYER 121, 3573.

Positional information

Arabidopsis gynoecium structure: SESSIONS AND ZAMBRYSKI 121, 1519.

Posterior neuropore

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.

Posterior pattern

FGF and noggin neural induction and patterning: LAMB AND HARLAND 121, 3627.

POLI

proximal-distal pattern in Drosophila wings:

4438 Subject Index

NG, DIAZ-BENJUMEA AND COHEN 121, 589.

XIPOU 2 has direct neuralizing activity: WITTA, AGARWAL AND SATO 121, 721

poxn

regulatory interactions between cut and poxn: VERVOORT, ZINK, PUJOL, VICTOIR, DUMONT, GHYSEN AND DAMBLY-CHAUDIERE 121, 3111.

pRb

in regulation of N-myc expression by TGF-β: SERRA AND MOSES 121, 3057.

Preimplantation development

CSF-1 and preimplantation development: BHATNAGAR, PAPAIOANNOU AND BIGGERS 121, 1333.

EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE 121, 299.

two CDC25 homologues:

WICKRAMASINGHE, BECKER, ERNST, RESNICK, CENTANNI, TESSAROLLO, GRABEL AND DONOVAN 121, 2047.

prickle

components of the *frizzled* signaling pathway: KRASNOW, WONG AND ADLER 121, 4095

Primary mesenchyme

dynamics of thin filopodia during sea urchin gastrulation: MILLER, FRASER AND MCCLAY 121, 2501.

Primary motoneuron

LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121, 4117.

Primitive endoderm

GATA-4 and endoderm differentiation: SOUDAIS, BIELINSKA, HEIKINHEIMO, MACARTHUR, NARITA, SAFFITZ, SIMON, LEIDEN AND WILSON 121, 3877.

Primitive streak

cDNA libraries from gastrulating mouse embryos: HARRISON, DUNWOODIE, ARKELL, LEHRACH AND BEDDINGTON 121, 2479.

HGF/SF and chick neural induction: STREIT, STERN, THERY, IRELAND, APARICIO, SHARPE AND GHERARDI 121, 813.

mesoderm production in mice: FAUST, SCHUMACHER, HOLDENER AND MAGNUSON 121, 273.

Primordial germ cell

alkaline phosphatase and PGCs: MACGREGOR, ZAMBROWICZ AND SORIANO 121, 1487.

LIFR mutation results in perinatal death: WARE, HOROWITZ, RENSHAW, HUNT, LIGGITT, KOBLAR, GLINIAK, MCKENNA, PAPAYANNOPOULOU, THOMA. CHENG, DONOVAN, PESCHON, BARTLETT, WILLIS 121, 1283.

migration of *Drosophila* primordial germ cells: JAGLARZ AND HOWARD **121**, 3495.

Primordium

meristem development in lateral roots: LASKOWSKI, WILLIAMS, NUSBAUM AND SUSSEX 121, 3303.

proboscipedia

regulatory sequences of proboscipedia: KAPOUN AND KAUFMAN 121, 2127. Procambium

Arabidopsis Athb-8 expression in procambial cells: BAIMA, NOBILI, SESSA, LUCCHETTI, RUBERTI AND MORELLI 121, 4171.

Programmed cell death

apoptotic death in lurcher Purkinje cells: NORMAN, FENG, CHENG, GUBBAY, CHAN AND HEINTZ 121, 1183.

Proliferation

adult morphogenesis in *Drosophila*: WEAVER AND WHITE **121**, 4149.

Wingless function in the leg disc: WILDER AND PERRIMON 121, 477.

Promoter

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121, 3549.

demethylation of a muscle-specific transgene: GRIESHAMMER, MCGREW AND ROSENTHAL 121, 2245.

endothelial specific promoter: SCHLAEGER, QIN, FUJIWARA, MAGRAM AND SATO 121, 1089.

plasticity of IGF2 imprinting status: EKSTROM, CUI, LI AND OHLSSON 121, 309.

Promoter-specificity

regulatory sequences of proboscipedia: KAPOUN AND KAUFMAN 121, 2127.

Proneural clusters

Serrate activates Notch: GU, HUKRIEDE AND FLEMING 121, 855.

Proneural gene

role of proneural genes in *Drosophila*: GIANGRANDE **121**, 429.

the proneural gene for chordotonal organs and photoreceptors: JARMAN, SUN, JAN AND JAN 121, 2019.

Prosencephalon

longitudinal organization of the brain: SHIMAMURA, HARTIGAN, MARTINEZ, PUELLES AND RUBENSTEIN 121, 3923.

prospero

cortical localization of pros at mitosis: SPANA AND DOE 121, 3187.

prospero

evolution of the insect CNS: BROADUS AND DOE 121, 3989.

Prostate

prostatic induction by seminal vesicle: DONJACOUR AND CUNHA 121, 2199.

Protei

translational control of *Xenopus* FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI **121**, 1775.

XDCoH the cofactor of LFB1 in Xenopus: POGGE V. STRANDMANN AND RYFFEL 121, 1217.

Protein kinase

Drosophila lats gene encodes a putative protein kinase: XU, WANG, ZHANG, STEWART AND YU 121, 1053.

ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161.

regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139.

Protein processing

neural patterning by hedgehog: LAI, EKKER, BEACHY AND MOON 121, 2349.

Proteoglycan

dally, a putative integral membrane

proteoglycan, affects cell division: NAKATO, FUTCH AND SELLECK 121, 3687

Proximal-distal axis

role of fj in proximal-distal growth: VILLANO AND KATZ 121, 2767.

Proximal-distal pattern

in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN 121, 589.

PS integrin

genetic analysis of α_{PS1}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM, FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.

PTH/PTHrP receptor

PTHrP impairs breast development: WYSOLMERSKI, MCCAUGHERN-CARUCCI, DAIFOTIS, BROADUS AND PHILBRICK 121, 3539.

Purkinje cell

apoptotic death in lurcher Purkinje cells: NORMAN, FENG, CHENG, GUBBAY, CHAN AND HEINTZ 121, 1183.

Purkinje fiber

heart Purkinje fiber differentiation: GOURDIE, MIMA, THOMPSON AND MIKAWA 121, 1423.

Quail embryo

neural crest formation in the avian embryo: SELLECK AND BRONNER-FRASER 121, 525.

Quiescent center

maintenance of the quiescent center: KERK AND FELDMAN 121, 2825.

Rac

Drosophila Rac genes: HARDEN, LOH, CHIA AND LIM 121, 903.

Radial glia

axonal guidance in chick retina: STIER AND SCHLOSSHAUER 121, 1443.

epigenetic control of BLBP transcription: FENG AND HEINTZ 121, 1719.

neuronal migration in the cerebral cortex:
O'ROURKE, SULLIVAN, KAZNOWSKI,
JACOBS AND MCCONNELL 121, 2165.

Radial pattern

organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

Radish

meristem development in lateral roots: LASKOWSKI, WILLIAMS, NUSBAUM AND SUSSEX 121, 3303.

Raphanus sativus

meristem development in lateral roots: LASKOWSKI, WILLIAMS, NUSBAUM AND SUSSEX 121, 3303.

ras

fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

Ras pathway

seven-up requires Ras activation: BEGEMANN, MICHON, VOORN, WEPF AND MLODZIK 121, 225.

ras

Caenorhabditis meiotic progression: CHURCH, GUAN AND LAMBIE 121, 2525.

Rat

astroglial oligodendrogliotrophic factors:

GARD, BURRELL, PFEIFFER, RUDGE AND WILLIAMS II 121, 2187.

BDNF regulation by GABA: BERNINGER, MARTY, ZAFRA, DA PENHA BERZAGHI, THOENEN AND LINDHOLM 121, 2327.

cell commitment in kidney development: QIAO, COHEN AND HERZLINGER 121,

control of cortical neuronal phenotype: FERRI AND LEVITT 121, 1151.

Hxt is a bHLH regulator of trophoblast: CROSS, FLANNERY, BLANAR. STEINGRIMSSON, JENKINS COPELAND, RUTTER AND WERB 121,

ligands of thyroid receptors induce cones: KELLEY, TURNER AND REH 121, 3777.

NPY expression and cell lineage: HALL AND MACPHEDRAN 121, 2361.

periaxin in myelinating Schwann cells: SCHERER, XU, BANNERMAN, SHERMAN AND BROPHY 121, 4265. prostatic induction by seminal vesicle:

DONJACOUR AND CUNHA 121, 2199. regionalization of mammalian forebrain: FISHELL 121, 803.

TBP, TFIIB, and pol II in spermatids: SCHMIDT AND SCHIBLER 121, 2373.

Rat lung

inhibition of PDGF-A translation: SOUZA, KULISZEWSKI, WANG, TSEU, TANSWELL AND POST 121, 2559.

RRP. IK

gene knock-out mice: OKA, NAKANO, WAKEHAM, LUIS DE LA POMPA. MORI, SAKAI, OKAZAKI, KAWA!CHI, SHIOTA, MAK AND HONJO 121, 3291.

pRb in regulation of N-myc expression by TGF-β: SERRA AND MOSES 121, 3057.

midline glial cell death: SONNENFELD AND JACOBS 121, 569. FGF in lens development: CHOW, ROUX,

ROGHANI, PALMER, RIFKIN,

MOSCATELLI AND LANG 121, 4383. IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645

Recombinant explants

anteroposterior specification in the CNS: COX AND HEMMATI-BRIVANLOU 121, 4349

Regeneration

head activator signal transduction: GALLIOT. WELSCHOF, SCHUCKERT, HOFFMEISTER AND SCHALLER 121,

head formation in Hydra: TECHNAU AND HOLSTEIN 121, 1273.

msx genes and zebrafish fin regeneration: AKIMENKO, JOHNSON, WESTERFIELD AND EKKER 121, 347.

neural crest regeneration: SECHRIST, NIETO, ZAMANIAN AND BRONNER-FRASER 121, 4103.

RA in regenerating limb blastema: VIVIANO, HORTON, MADEN AND BROCKES 121,

the Xenopus laevis tail-forming region: TUCKER AND SLACK 121, 249.

Regionalization

of mammalian forebrain: FISHELL 121, 803.

Regions

chromatin maturation in mouse embryos: THOMPSON, LEGOUY, CHRISTIANS AND RENARD 121, 3425.

Regulation

polyhomeotic as a target of engrailed: SERRANO, BROCK, DEMERET, DURA, RANDSHOLT, KORNBERG AND MASCHAT 121 1691

Regulatory hierarchy

sequential gene activation by ecdysone: HUET, RUIZ AND RICHARDS 121, 1195.

rel protein

pelle activation at the plasma membrane: GALINDO, EDWARDS, GILLESPIE AND WASSERMAN 121, 2209.

Renal stem cell

cell commitment in kidney development: QIAO, COHEN AND HERZLINGER 121.

repo

and glia function: HALTER, URBAN, RICKERT, NER, ITO, TRAVERS AND TECHNAU 121, 317.

Repression

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067.

Resurrector mutant

mitotic delay dependent survival: RUDEN AND JACKLE 121, 63.

axonal guidance in chick retina: STIER AND SCHLOSSHAUER 121, 1443.

integrin α₂β₁ in developing retina: BRADSHAW, MCNAGNY, GERVIN, CANN, GRAF AND CLEGG 121, 3593.

retinal determination by Notch selection: AUSTIN, FELDMAN, IDA JR. AND CEPKO 121, 3637.

zebrafish neural fate maps: WOO AND FRASER 121, 2595.

Retinal ganglion cells

development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763.

Retinoic acid

alters hindbrain crest cell migration: LEE, OSUMI-YAMASHITA, NINOMIYA, MOON, ERIKSSON AND ETO 121, 825.

and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121,

ascidian labial group Hox gene: KATSUYAMA, WADA, YASUGI AND SAIGA 121, 3197.

CRABPI and CRABPII knockout: LAMPRON, ROCHETTE-EGLY, GORRY, DOLLE, MARK, LUFKIN, LEMEUR AND CHAMBON 121, 539.

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957.

ligands of thyroid receptors induce cones KELLEY, TURNER AND REH 121, 3777. midkine and HB-GAM in mouse embryos:

MITSIADIS, SALMIVIRTA, MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN AND THESLEFF 121, 37

polydactyly in CRABP-II mutant mice:

FAWCETT, PASCERI, FRASER. COLBERT, ROSSANT AND GIGUERE 121, 671

resistance to RA induced limb defects in RXRa → mice: SUCOV, IZPISUA-BELMONTE, GANAN AND EVANS 121, 3997

Retinoic acid receptor

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121.

Retinoid

RA in regenerating limb blastema: VIVIANO, HORTON, MADEN AND BROCKES 121. 3753.

Retinotectal

development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763. retinotectal interactions in vitro: YAMAGATA AND SANES 121, 189. timing of topographic cues: CHIEN, CORNEL

AND HOLT 121, 2621.

Retrovirus

heart Purkinje fiber differentiation: GOURDIE, MIMA, THOMPSON AND MIKAWA 121,

submucosal gland development and morphogenesis: ENGELHARDT. SCHLOSSBERG AND YANKASKAS AND DUDUS 121, 2031.

Reverse-transcriptase

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

REVOLUTA

meristem development in Arabidopsis: TALBERT, ADLER, PARKS AND COMAI 121, 2723.

Rhabdomere

assembly requires rhodopsin: KUMAR AND READY 121, 4359.

Rhodopsin

rhabdomere assembly requires rhodopsin: KUMAR AND READY 121, 4359.

genetic hierarchy of Drosophila wing vein development: STURTEVANT AND BIER 121, 785.

midline glial cell death: SONNENFELD AND JACOBS 121, 569.

Rhombomere

FGF-3 in chick development: MAHMOOD, KIEFER, GUTHRIE, DICKSON AND MASON 121, 1399.

neural crest cell migration: BIRGBAUER. SECHRIST, BRONNER-FRASER AND FRASER 121, 935.

plasticity of transposed rhombomeres: GRAPIN-BOTTON, BONNIN, MCNAUGHTON, KRUMLAUF AND LE DOUARIN 121, 2707.

Sek-1 and segmental patterning: XU, ALLDUS, HOLDER AND WILKINSON 121, 4005.

Rib

MRF4 disruption causes myotome and rib defects: PATAPOUTIAN, YOON, MINER, WANG, STARK AND WOLD 121, 3347.

RNA

regulation of dosage compensation: BASHAW AND BAKER 121, 3245.

RNA binding protein

translational control of Xenopus FGF receptor:

4440 Subject Index

ROBBIE, PETERSON, AMAYA AND MUSCI 121, 1775.

RNA localization

eggshell defects and bicaudal embryos: RITTENHOUSE AND BERG 121, 3023. two pathways for vegetal localization: KLOC AND ETKIN 121, 287.

RNA polymerase II

TBP, TFIIB, and pol II in spermatids: SCHMIDT AND SCHIBLER 121, 2373.

RNA secondary structure

K10 mRNA localization: SERANO AND COHEN 121, 3809.

RNA-binding protein

Caenorhabditis dosage compensation: HSU, CHUANG AND MEYER 121, 3323.

pattern in noggin-induced neural tissue: KNECHT, GOOD, DAWID AND HARLAND 121, 1927.

RNase protection

coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.

expression of Sry: HACKER, CAPEL, GOODFELLOW AND LOVELL-BADGE 121, 1603.

rolling stone gene

myoblast fusion and rost gene expression in Drosophila: PAULULAT, BURCHARD AND RENKAWITZ-POHL 121, 2611.

Root development

conditional root expansion mutants: HAUSER, MORIKAMI AND BENFEY 121, 1237. maintenance of the quiescent center: KERK AND FELDMAN 121, 2825.

Root meristem

radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

rough

seven-up function and ras signaling: KRAMER, WEST AND HIROMI 121, 1361.

RT-PCR

EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE 121, 299.

runt

regulation of ftz by runt and hairy: TSAI AND GERGEN 121, 453.

RXR

resistance to RA induced limb defects in RXRar inice: SUCOV, IZPISUA-BELMONTE, GANAN AND EVANS 121, 3997.

Ryanodine

IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645.

mouse egg activation: AYABE, KOPF AND SCHULTZ 121, 2233.

Ryanodine receptor

mouse egg activation: AYABE, KOPF AND SCHULTZ 121, 2233.

S phase

cell cycle dependence of eve expression: WEIGMANN AND LEHNER 121, 3713. regulation of S phase by cyclin E:

regulation of S phase by cyclin E: RICHARDSON, O'KEEFE, MARTY AND SAINT 121, 3371.

Salivary gland imaginal ring

role of Awh in imaginal development: CURTISS AND HEILIG 121, 3819.

Scaffold attachment

chromatin maturation in mouse embryos: THOMPSON, LEGOUY, CHRISTIANS AND RENARD 121, 3425.

scarecrow

radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

SCF

immortal mouse melanoblasts: SVIDERSKAYA, WAKELING AND BENNETT 121, 1547.

CC10

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887.

Schistocerca

evolution of the insect CNS: BROADUS AND DOE 121, 3989.

Schwann cell

fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

periaxin in myelinating Schwann cells: SCHERER, XU, BANNERMAN, SHERMAN AND BROPHY 121, 4265.

Scleraxis

and skeletal formation in mouse: CSERJESI, BROWN, LIGON, LYONS, COPELAND, GILBERT, JENKINS AND OLSON 121, 1099.

Sclerotome

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

scleraxis and skeletal formation in mouse: CSERJESI, BROWN, LIGON, LYONS, COPELAND, GILBERT, JENKINS AND OLSON 121, 1099.

scratch (scrt)

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121, 3549.

Sea urchin

calcium channels and the cell cycle in blastomeres: YAZAKI, TOSTI AND DALE 121, 1827.

dynamics of thin filopodia during sea urchin gastrulation: MILLER, FRASER AND MCCLAY 121, 2501.

ectoderm differentiation in sea urchins: WIKRAMANAYAKE, BRANDHORST AND KLEIN 121, 1497.

how do sea urchins invaginate: DAVIDSON, KOEHL, KELLER AND OSTER 121, 2005.

T gene expression: HARADA, YASUO AND SATOH 121, 2747.

tektin mRNA and cilia length in sea urchins: NORRANDER, LINCK AND STEPHENS 121, 1615.

vegetal plate specification in sea urchins: RANSICK AND DAVIDSON 121, 3215.

Sea urchin gene regulation

spatial gene regulation by Zn finger factor: WANG, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1111.

Secondary mesenchyme

dynamics of thin filopodia during sea urchin gastrulation: MILLER, FRASER AND MCCLAY 121, 2501.

Secondary mesenchyme founder cells

sea urchin T gene expression: HARADA, YASUO AND SATOH 121, 2747.

Seed dormancy

NAMBARA, KEITH, MCCOURT AND NAITO 121. 629.

Segment identity

Hox genes and segment identity: CASTELLI-GAIR AND AKAM 121, 2973.

Hox genes and vertebral transposition: BURKE, NELSON, MORGAN AND TABIN 121, 333.

Segment polarity gene

hedgehog in Drosophila imaginal discs: FELSENFELD AND KENNISON 121, 1. ptc overexpression in wing discs: JOHNSON,

GRENIER AND SCOTT 121, 4161. regulation of the ci gene: SCHWARTZ, LOCKE, NISHIDA AND KORNBERG 121. 1625.

Wingless regulation in *Drosophila*: MANOUKIAN, YOFFE, WILDER AND PERRIMON 121, 4037.

Segmentation

caudal regulation and function: SCHULZ AND TAUTZ 121, 1023.

eve as a morphogen for single cell rows: FUJIOKA, JAYNES AND 121, 4371.

hunchback expression in Tribolium: WOLF, SOMMER, SCHRODER, GLASER AND TAUTZ 121, 4227.

neurogenic sublineage required for CNS segmentation in Annelids: RAMIREZ, WEDEEN, STUART, LANS AND WEISBLAT 121, 2091.

Notch1 in somite segmentation: CONLON, REAUME AND ROSSANT 121, 1533.

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067. Sek-1 and segmental patterning: XU,

ALLDUS, HOLDER AND WILKINSON 121, 4005.

Sek-1

and segmental patterning: XU, ALLDUS, HOLDER AND WILKINSON 121, 4005.

Sensory ganglia

truncated trkB in the developing chick: BIFFO, OFFENHAUSER, CARTER AND BARDE 121, 2461.

Sensory interneurons

neural expression of *ceh-10*: SVENDSEN AND MCGHEE **121**, 1253.

Sensory neuron

PNS lineages in *Drosophila*: BREWSTER AND BODMER **121**, 2923.

sensory deficiencies in trk double mutant mice: MINICHIELLO, PIEHL, VAZQUEZ, SCHIMMANG, HOKFELT, REPRESA AND KLEIN 121, 4067.

Sequence conservation

sea urchin T gene expression: HARADA, YASUO AND SATOH 121, 2747.

Serial transplantation

chimerism with mouse male fetal germ cells: KATO AND TSUNODA 121, 779.

Serine proteases

Snake zymogen and activated forms: SMITH, GIORDANO, SCHWARTZ AND DELOTTO 121, 4127.

Serrate

organizing activity in the Drosophila wing:

DIAZ-BENJUMEA AND COHEN 121, 4215

Serrate

activates Notch: GU, HUKRIEDE AND FLEMING 121, 855.

seven-un

evolution of the insect CNS: BROADUS AND DOE 121, 3989.

requires Ras activation: BEGEMANN, MICHON, VOORN, WEPF AND MLODZIK 121, 225.

sevenless

seven-up function and ras signaling. KRAMER, WEST AND HIROMI 121, 1361

Sex determination

a sex-specific number of germ cells in embryos: POIRIE, NIEDERER AND STEINMANN-ZWICKY 121, 1867.

dual hermaphrodite role in Drosophila: PULTZ AND BAKER 121, 99.

expression of Sry: HACKER, CAPEL, GOODFELLOW AND LOVELL-BADGE 121, 1603.

soma-germline interactions in oogenesis: NAGOSHI, PATTON, BAE AND GEYER 121, 579,

TRA-2A directs hermaphrodite development: KUWABARA AND KIMBLE 121, 2995.

Sex specification

regulation of dosage compensation: BASHAW AND BAKER 121, 3245.

Sex-specific splicing

vir is a regulator of Sxl in Drosophila: HILFIKER, AMREIN, DUBENDORFER, SCHNEITER AND NOTHIGER 121, 4017.

Sexual development

abnormal MOL genesis in fruitless flies: TAYLOR AND KNITTEL 121, 3079.

Sexual dimorphism

a sex-specific number of germ cells in embryos: POIRIE, NIEDERER AND STEINMANN-ZWICKY 121, 1867.

Sexual organ

peripheral projections and central neurogenesis: BECKER, BERLINER, NITABACH, GAN AND MACAGNO 121,

SHH

ld disrupts the SHH/FGF-4 feedback loop: HARAMIS, BROWN AND ZELLER 121, 4237.

Shh peptides

in chick and mouse embryo: MARTI, TAKADA, BUMCROT, SASAKI AND MCMAHON 121, 2537.

shh

development of reaggregated mesenchyme: HARDY, RICHARDSON, FRANCIES-WEST, RODRIGUEZ, IZPISUA-BELMONTE, DUPREZ AND WOLPERT 121, 4329.

relation of formins to AER and ZPA: CHAN. WYNSHAW-BORIS AND LEDER 121,

signalling during gut development: ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121, 3163.

Shoot apical meristem

late embryo development in Arabidopsis: NAMBARA, KEITH, MCCOURT AND NAITO 121, 629.

Shoot meristem

CLV3 regulates meristem development: CLARK, RUNNING AND MEYEROWITZ 121, 2057.

Short germ band embryo

hunchback expression in Tribolium: WOLF. SOMMER, SCHRODER, GLASER AND TAUTZ 121, 4227.

radial organisation of the Arabidopsis root: SCHERES, DI LAURENZIO, WILLEMSEN, HAUSER, JANMAAT, WEISBEEK AND BENFEY 121, 53.

Sialyl Lewis x

carbohydrate involvement in B cell development: MASTELLER, LARSEN, CARLSON, PICKEL, NICKOLOFF, LOWE, THOMPSON AND LEE 121, 1657

Signal transduction

components of the frizzled signaling pathway: KRASNOW, WONG AND ADLER 121,

MAP kinase in Xenopus mesoderm induction and axial patterning: LABONNE, BURKE AND WHITMAN 121, 1475.

pelle activation at the plasma membrane: GALINDO, EDWARDS, GILLESPIE AND WASSERMAN 121, 2209.

Signaling

ptc overexpression in wing discs: JOHNSON, GRENIER AND SCOTT 121, 4161.

epigenetic control of BLBP transcription: FENG AND HEINTZ 121, 1719.

sine oculis

mouse eye homeobox gene: OLIVER, MAILHOS, WEHR, COPELAND. JENKINS AND GRUSS 121, 4045.

single-minded

brain development in Drosophila: THERIANOS, LEUZINGER, HIRTH, GOODMAN AND REICHERT 121, 3849.

neurogenic genes control l'sc and mesectoderm: MARTIN-BERMUDO. CARMENA AND JIMENEZ 121, 219.

Situs inversus

cardiac left-right development: DANOS AND YOST 121, 1467.

Skeletal formation

scleraxis and skeletal formation in mouse: CSERJESI, BROWN, LIGON, LYONS, COPELAND, GILBERT, JENKINS AND OLSON 121, 1099.

Skeletogenic lineage

Cis-regulatory control of the SM50 gene: MAKABE, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1957.

Skeleton

goosecoid -null mice: RIVERA-PEREZ. MALLO, GENDRON-MAGUIRE, GRIDLEY AND BEHRINGER 121, 3005.

slit

midline glial cell death: SONNENFELD AND JACOBS 121, 569.

Slug

neural crest regeneration: SECHRIST, NIETO, ZAMANIAN AND BRONNER-FRASER 121, 4103.

SM50 gene

Cis-regulatory control of the SM50 gene: MAKABE, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1957.

Small eye

Pax-6 in eye and nasal development: GRINDLEY, DAVIDSON AND HILL 121, 1433

Small GTP-binding protein

Drosophila Rac genes: HARDEN, LOH. CHIA AND LIM 121, 903.

snail !

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

snail (sna)

CNS- and PNS-specific subelements of panneural enhancers: EMERY AND BIER 121, 3549.

Snake

zymogen and activated forms: SMITH, GIORDANO, SCHWARTZ AND DELOTTO 121, 4127.

enRNPe

biogenesis of the coiled body: FERREIRA AND CARMO-FONSECA 121, 601.

Somatostatin

developmental biology of the pancreas: SLACK 121, 1569.

Somite

induction in chick Hensen's node: STOREY, SELLECK AND STERN 121, 417.

Notch1 in somite segmentation: CONLON, REAUME AND ROSSANT 121, 1533.

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

paraxial mesoderm myogenic induction: STERN, BROWN AND HAUSCHKA 121,

RBP-Jk gene knock-out mice: OKA, NAKANO, WAKEHAM, LUIS DE LA POMPA, MORI, SAKAI, OKAZAKI, KAWAICHI, SHIOTA, MAK AND HONJO 121, 3291.

role for PNA-binding molecules in migration of avian trunk neural crest: KRULL, COLLAZO, FRASER AND BRONNER-FRASER 121, 3733.

scleraxis and skeletal formation in mouse: CSERJESI, BROWN, LIGON, LYONS, COPELAND, GILBERT, JENKINS AND OLSON 121, 1099.

Somite graft

in ovo mouse somite transplantation: FONTAINE-PERUS, JARNO, FOURNIER LE RAY, LI AND PAULIN 121, 1705.

Somitogenesis

axial tissues induce myogenic bHLH genes: MUNSTERBERG AND LASSAR 121,

mouse delta-like gene: BETTENHAUSEN, HRABE DE ANGELIS, SIMON, GUENET AND GOSSLER 121, 2407.

somitomere and neural crest cells: TRAINOR AND TAM 121 2569 Sonic hedgehog

signalling during gut development: ROBERTS, JOHNSON, BURKE, NELSON, MORGAN AND TABIN 121. 3163.

spadetail

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

spaghetti squash

myosin II in oogenesis and early cleavage:

WHEATLEY, KULKARNI AND KARESS 121, 1937.

Spatial pattern

neural patterning by hedgehog: LAI, EKKER, BEACHY AND MOON 121, 2349. tissue progenitors in zebrafish gastrula: SHIH

AND FRASER 121, 2755.

Spec genes

ectoderm differentiation in sea urchins: WIKRAMANAYAKE, BRANDHORST AND KLEIN 121, 1497.

Spemann organizer

homeobox control of Spemann organizer: ZARAISKY, ECOCHARD, KAZANSKAYA, LUKYANOV, FESENKO AND DUPRAT 121, 3839. induction of anterior neurectoderm: BLITZ

AND CHO 121, 993.

regulation of axial pattern by Xgsk-3: PIERCE AND KIMELMAN 121, 755.

Sperm

mouse sperm capacitation: VISCONTI, BAILEY, MOORE, PAN, OLDS-CLARKE AND KOPF 121, 1129.

nuclear Ca²⁺-releasing activity in embryos: KONO, CARROLL, SWANN AND WHITTINGHAM **121**, 1123.

regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139.

Spermatid

sperm injection: KIMURA AND YANAGIMACHI 121, 2397.

Spermatogenesis

Hoxa 11 structure, expression and function in fertility: HSIEH-LI, WITTE, WEINSTEIN, BRANFORD, LI, SMALL AND POTTER 121 1373

pelota meiotic G₂/M arrest: EBERHART AND WASSERMAN 121, 3477.

transcriptional repression in germ cells: O'NEILL AND ARTZT 121, 561.

Spermatogenic cell

sperm injection: KIMURA AND YANAGIMACHI 121, 2397.

Spermatozoa

sperm injection: KIMURA AND YANAGIMACHI 121, 2397.

Spermiogenesis

TBP, TFIIB, and pol II in spermatids: SCHMIDT AND SCHIBLER 121, 2373.

Spina bifida

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.

Spinal cord

dorsalization of the neural tube by non-neural ectoderm: DICKINSON, SELLECK, MCMAHON AND BRONNER-FRASER 121, 2099.

oligodendrocyte development in chick spinal cord: ONO, BANSAL, PAYNE, RUTISHAUSER AND MILLER 121, 1743.

RA and RA receptors in neural tube defects: CHEN, MORRISS-KAY AND COPP 121, 681.

spiny legs

frizzled and pattern formation in Drosophila eye: ZHENG, ZHANG AND CARTHEW 121, 3045

Spiralians

spiralian cell fate specification: MARTINDALE AND HENRY 121, 3175. spire

gratuitous localization of K10 mRNA: SERANO AND COHEN 121, 3013.

splotch

connective tissue homeobox genes: OLIVER, WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN, ZIPURSKY AND GRUSS 121, 693.

Sry

expression of Sry: HACKER, CAPEL, GOODFELLOW AND LOVELL-BADGE 121, 1603.

Seml

transgene methylation in embryos and ES cells: WENG, MAGNUSON AND STORB 121, 2853.

staggerer

multiple cell cycle events precede targetrelated neuronal death: HERRUP AND BUSSER 121, 2385.

Steel factor

roles of SIF in melanocyte dispersal and survival: WEHRLE-HALLER AND WESTON 121, 731.

Stem cell

Drosophila ovarian follicle stem cells: MARGOLIS AND SPRADLING 121, 3797.

parthenote stem cell defects: NEWMAN-SMITH AND WERB 121, 2069.

role of *Drosophila* Bag of marbles protein: MCKEARIN AND OHLSTEIN 121, 2937.

Stem cell proliferation

activation of neuroblast proliferation: DATTA 121, 1173.

Sterility

mes-1 and germ-cell fate in Caenorhabditis: STROME, MARTIN, SCHIERENBERG AND PAULSEN 121, 2961.

Steroid hormone

Drosophila E63 genes: ANDRES AND THUMMEL 121, 2667.

Steroid receptor

seven-up function and ras signaling: KRAMER, WEST AND HIROMI 121, 1361.

Stomach

TGFα alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

Stomatogastric nervous system

positioning of SNS invagination centers: GONZALEZ-GAITAN AND JACKLE 121, 2313.

Streptozotocin

developmental biology of the pancreas: SLACK 121, 1569.

string

cortical localization of pros at mitosis: SPANA AND DOE 121, 3187.

string

cell cycle dependence of eve expression: WEIGMANN AND LEHNER 121, 3713, regulation of gene expression in the CNS: CUI AND DOE 121, 3233.

Strong's Luxoid

lst^D limbs contain ectopic ZPA: CHAN, LAUFER, TABIN AND LEDER 121, 1971.

Strongylocentrotus purpuratus

Cis-regulatory control of the SM50 gene: MAKABE, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1957. su(Hw) protein

protein and dosage compensation: ROSEMAN, SWAN AND GEYER 121,

Substance P

development of ganglion cell subsets: YAMAGATA AND SANES 121, 3763. Suppressor of Hairless

clonal analysis of *Su(H)*: SCHWEISGUTH **121**, 1875.

functional analysis of *Drosophila* Deltex: MATSUNO, DIEDERICH, GO, BLAUMUELLER AND ARTAVANIS-TSAKONAS 121, 2633.

Sympathetic ganglion

NPY expression and cell lineage: HALL AND MACPHEDRAN 121, 2361.

Sympathetic neuron

GPA receptor function and expression: HELLER, FINN, HUBER, NISHI, GEISSEN, PUSCHEL AND ROHRER 121, 2681.

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887.

Synaptobrevin

pattern in noggin-induced neural tissue: KNECHT, GOOD, DAWID AND HARLAND 121, 1927.

Synaptogenesis

retinotectal interactions in vitro: YAMAGATA AND SANES 121, 189.

Syndecan-1

midkine and HB-GAM in mouse embryos: MITSIADIS, SALMIVIRTA, MURAMATSU, MURAMATSU, RAUVALA, LEHTONEN, JALKANEN AND THESLEFF 121, 37.

T (Brachyury)

in morphogenetic movement: WILSON, MANSON, SKARNES AND BEDDINGTON 121, 877.

T gene

amphioxus Brachyury genes: HOLLAND, KOSCHORZ, HOLLAND AND HERRMANN 121, 4283.

t-complex

mouse delta-like gene: BETTENHAUSEN, HRABE DE ANGELIS, SIMON, GUENET AND GOSSLER 121, 2407.

Tachykinin

in morphogenetic processes: WEIL, ITIN AND KESHET 121, 2419.

Tail bud

the Xenopus laevis tail-forming region: TUCKER AND SLACK 121, 249.

tailless

expression of orphan nuclear receptor tailless in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067. Target

homeotic regulation of cnn: HEUER, LI AND

KAUFMAN 121, 3861.

polyhomeotic as a target of engrailed: SERRANO, BROCK, DEMERET, DURA, RANDSHOLT, KORNBERG AND MASCHAT 121, 1691.

Target innervation

inner ear defects of trkB and trkC mutant mice:

SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

Target tissue

NPY expression and cell lineage: HALL AND MACPHEDRAN 121, 2361.

Targeted mutations

development of GATA-1⁻ hematopoietic cells: PEVNY, LIN, D'AGATI, SIMON, ORKIN AND COSTANTINI 121, 163.

TATA-binding protein

TBP, TFIIB, and pol II in spermatids: SCHMIDT AND SCHIBLER 121, 2373.

teashirt

tsh regulation by homeotic genes: MCCORMICK, CORE, KERRIDGE AND SCOTT 121, 2799.

Tektin

mRNA and cilia length in sea urchins: NORRANDER, LINCK AND STEPHENS 121, 1615.

Telencephalon

regionalization of mammalian forebrain: FISHELL 121, 803.

Tendon

connective tissue homeobox genes: OLIVER, WEHR, JENKINS, COPELAND, CHEYETTE, HARTENSTEIN, ZIPURSKY AND GRUSS 121, 693.

Teratogenesis

resistance to RA induced limb defects in RXRar/- mice: SUCOV, IZPISUA-BELMONTE, GANAN AND EVANS 121, 3997

Terminal differentiation

in Caenorhabditis: ROUGVIE AND AMBROS 121, 2491.

Terminal filament

cell rearrangement in ovary development: GODT AND LASKI 121, 173.

Terminal system

expression of orphan nuclear receptor tailless in mouse forebrain: MONAGHAN, GRAU, BOCK AND SCHUTZ 121, 839.

TGF-α

alters differentiation in gastric mucosa: SHARP, BABYATSKY, TAKAGI, TAGERUD, WANG, BOCKMAN, BRAND AND MERLINO 121, 149.

EGF, TGF-α and EGFR in human embryos: CHIA, WINSTON AND HANDYSIDE 121, 299.

induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.

TGF-β

anti-dorsalizing morphogenetic protein: MOOS JR., WANG AND KRINKS 121, 4293

Nodal-related signaling in mesoderm patterning: JONES, KUEHN, HOGAN, SMITH AND WRIGHT 121, 3651.

pRb in regulation of N-myc expression by TGF-β: SERRA AND MOSES 121, 3057.

TGFβ1 controls endothelial differentiation and haematopoiesis: DICKSON, MARTIN, COUSINS, KULKARNI, KARLSSON AND AKHURST 121, 1845.

TH

transcription factors in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887. Thresholds

mesodermal patterning by *Brachyury* and *Pintallavis*: O'REILLY, SMITH AND CUNLIFFE **121**, 1351.

Thymus

Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.

Thyroid

Hoxa-3⁻ mutant mice: MANLEY AND CAPECCHI 121, 1989.

Thyroid hormone

ligands of thyroid receptors induce cones: KELLEY, TURNER AND REH 121, 3777.

TIMP.3

proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.

tinman

XNkx-2.3, a second vertebrate homologue of tinman: EVANS, YAN, MURILLO, PONCE AND PAPALOPULU 121, 3889.

Tip cell formation

positioning of SNS invagination centers: GONZALEZ-GAITAN AND JACKLE 121, 2313.

Tissue interaction

myogenic cell migration in chick embryos: HAYASHI AND OZAWA 121, 661.

Tissue polarity

components of the frizzled signaling pathway: KRASNOW, WONG AND ADLER 121, 4095.

furrow progression and ommatidial polarity: STRUTT AND MLODZIK 121, 4247.

Tissue-specific transcription

XDCoH the cofactor of LFB1 in Xenopus: POGGE V. STRANDMANN AND RYFFEL 121, 1217.

tolloid gene

HMP1: a developmental astacin proteinase: YAN, POLLOCK, NAGASE AND SARRAS JR. 121, 1591.

Toll

pelle activation at the plasma membrane: GALINDO, EDWARDS, GILLESPIE AND WASSERMAN 121, 2209.

Tooth

tachykinins in morphogenetic processes: WEIL, ITIN AND KESHET 121, 2419.

torso

pelle activation at the plasma membrane: GALINDO, EDWARDS, GILLESPIE AND WASSERMAN 121, 2209.

tra-2

TRA-2A directs hermaphrodite development: KUWABARA AND KIMBLE 121, 2995.

Tracheal development

homeotic gene regulation of tracheal development: CHIANG, YOUNG AND BEACHY 121, 3901.

ventral veinless in Drosophila development: DE CELIS, LLIMARGAS AND CASANOVA 121, 3405.

Transcription

epigenetic control of BLBP transcription: FENG AND HEINTZ **121**, 1719. expression of *Sry*: HACKER, CAPEL,

expression of Sry: HACKER, CAPEL, GOODFELLOW AND LOVELL-BADGE 121, 1603.

Hxt is a bHLH regulator of trophoblast: CROSS, FLANNERY, BLANAR, STEINGRIMSSON, JENKINS, COPELAND, RUTTER AND WERB 121,

neurogenic genes control *l'sc* and mesectoderm: MARTIN-BERMUDO, CARMENA AND JIMENEZ **121**, 219.

regulation of a gap gene stripe: MARGOLIS, BOROWSKY, STEINGRIMSSON, SHIM, LENGYEL AND POSAKONY 121, 3067.

regulation of the myoD gene in mouse embryos: GOLDHAMER, BRUNK, FAERMAN, KING, SHANI AND EMERSON 121, 637.

repression in germ cells: O'NEILL AND ARTZT 121, 561.

TBP, TFIIB, and pol II in spermatids: SCHMIDT AND SCHIBLER 121, 2373. terminal differentiation in *Caenorhabditis*:

ROUGVIE AND AMBROS 121, 2491.

Transcription factor

in sympathetic differentiation: GROVES, GEORGE, TISSIER-SETA, ENGEL, BRUNET AND ANDERSON 121, 887.

molecular cloning of AP-2: MOSER, IMHOF, PSCHERER, BAUER, AMSELGRUBER, SINOWATZ, HOFSTADTER, SCHULE AND BUETTNER 121, 2779.

spatial gene regulation by Zn finger factor: WANG, KIRCHHAMER, BRITTEN AND DAVIDSON 121, 1111.

Transcription repression

repression of Pax-2 by WT1: RYAN, STEELE-PERKINS, MORRIS, RAUSCHER III AND DRESSLER 121, 867.

Transcriptional control

Hoxc-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4339.

Transcriptional enhancer

tsh regulation by homeotic genes: MCCORMICK, CORE, KERRIDGE AND SCOTT 121, 2799.

Transcriptional regulation

an active repressor mimics a fiz mutant: JOHN, SMITH AND JAYNES 121, 1801.

Transcriptional repression

eve as a morphogen for single cell rows: FUJIOKA, JAYNES AND 121, 4371.

Transdetermination

wingless induces transdetermination: MAVES AND SCHUBIGER 121, 1263.

Transfer cells

gametic imprinting and endosperm development: CHARLTON, KEEN, MERRIMAN, LYNCH, GREENLAND AND DICKINSON 121, 3089.

Transformation

RA alters hindbrain crest cell migration: LEE, OSUMI-YAMASHITA, NINOMIYA, MOON, ERIKSSON AND ETO 121, 825.

transformer

vir is a regulator of Sxl in Drosophila: HILFIKER, AMREIN, DUBENDORFER, SCHNEITER AND NOTHIGER 121, 4017.

Transforming growth factor α

induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.

Transforming growth factor-beta

dpp signaling requires schnurri: STAEHLING-HAMPTON, LAUGHON AND HOFFMANN 121, 3393. Transgene

demethylation of a muscle-specific transgene: GRIESHAMMER, MCGREW AND ROSENTHAL 121, 2245.

transcriptional activation of the mouse zygotic genome: CHRISTIANS, CAMPION, THOMPSON AND RENARD 121, 113.

Transgenesis

chromatin maturation in mouse embryos: THOMPSON, LEGOUY, CHRISTIANS AND RENARD 121, 3425.

Transgenic analysis

dominant negative FGFR1 in the lens: ROBINSON, MACMILLAN-CROW, THOMPSON AND OVERBEEK 121, 3959

Hoxe-8 early neural tube enhancer: SHASHIKANT, BIEBERICH, BELTING, WANG, BORBELY AND RUDDLE 121, 4339.

Transgenic fly

Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957.

Transgenic mouse

anterior expression boundary of *Hoxa-7*: KNITTEL, KESSEL, KIM AND GRUSS 121, 1077.

endothelial specific promoter: SCHLAEGER, QIN, FUJIWARA, MAGRAM AND SATO 121, 1089.

FGF-induced lens differentiation in vivo: ROBINSON, OVERBEEK, VERRAN, GRIZZLE, STOCKARD, FRIESEL, MACIAG AND THOMPSON 121, 505.

fibroblasts in neurofibromatosis type 1(NF1): ROSENBAUM, BOISSY, KOMBRINCK, BRANNAN, JENKINS, COPELAND AND RATNER 121, 3583.

Hox gene enhancers in mice and Drosophila: FRASCH, CHEN AND LUFKIN 121, 957.

in ovo mouse somite transplantation: FONTAINE-PERUS, JARNO, FOURNIER LE RAY, LI AND PAULIN 121, 1705.

PTHrP impairs breast development: WYSOLMERSKI, MCCAUGHERN-CARUCCI, DAIFOTIS, BROADUS AND PHILBRICK 121, 3539.

regulation of the myoD gene in mouse embryos: GOLDHAMER, BRUNK, FAERMAN, KING, SHANI AND EMERSON 121, 637.

TGFα induces migration of perioptic mesenchymal cells in vivo: RENEKER, SILVERSIDES, PATEL AND OVERBEEK 121, 1669.

transgene methylation in embryos and ES cells: WENG, MAGNUSON AND STORB 121, 2853.

Transient expression

sea urchin T gene expression: HARADA, YASUO AND SATOH 121, 2747.

Translational control

of oskar: MARKUSSEN, MICHON, BREITWIESER AND EPHRUSSI 121, 3723.

of Xenopus FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI 121, 1775

Translational regulation

of oskar translation: RONGO, GAVIS AND LEHMANN 121, 2737.

Translocation

asplenic hox11 mice: DEAR, COLLEDGE, CARLTON, LAVENIR, LARSON,

SMITH, WARREN, EVANS, SOFRONIEW AND RABBITTS 121, 2909.

Transmembrane receptor

Notch1 in somite segmentation: CONLON, REAUME AND ROSSANT 121, 1533.

Transplantation

chimerism with mouse male fetal germ cells: KATO AND TSUNODA 121, 779.

plasticity of transposed rhombomeres: GRAPIN-BOTTON, BONNIN, MCNAUGHTON, KRUMLAUF AND LE DOUARIN 121, 2707.

Transposon mutagenesis

control of dorsoventrality in leaves: WAITES
AND HUDSON 121, 2143.

trithorax

Dlw specifies dorsal wing identity in Drosophila: TIONG, NASH AND BENDER 121, 1649.

1,4,5-Trisphosphate

IP3 and ryanodine receptors in bovine oocytes: YUE, WHITE, REED AND BUNCH 121, 2645.

Trk

sensory deficiencies in trk double mutant mice: MINICHIELLO, PIEHL, VAZQUEZ, SCHIMMANG, HOKFELT, REPRESA AND KLEIN 121, 4067.

trkB

inner ear defects of trkB and trkC mutant mice: SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

trkC

inner ear defects of trkB and trkC mutant mice: SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

muscle sensory neurons require NT-3 to survive: OAKLEY, GARNER, LARGE AND FRANK 121, 1341.

NT-3 and dermis development: BRILL, KAHANE, CARMELI, VON SCHACK, BARDE AND KALCHEIM 121, 2583.

trol

activation of neuroblast proliferation: DATTA 121, 1173.

Trophectoderm

desmocollin expression in mouse embryo: COLLINS, LORIMER, GARROD, PIDSLEY, BUXTON AND FLEMING 121, 743.

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

Trophoblast

CSF-1 and preimplantation development: BHATNAGAR, PAPAIOANNOU AND BIGGERS 121, 1333.

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

H19 imprinting: SASAKI, FERGUSON-SMITH, SHUM, BARTON AND SURANI 121, 4195.

Hxt is a bHLH regulator of trophoblast: CROSS, FLANNERY, BLANAR, STEINGRIMSSON, JENKINS, COPELAND, RUTTER AND WERB 121, 2513.

TRP-2

roles of SIF in melanocyte dispersal and survival: WEHRLE-HALLER AND WESTON 121, 731. TSC-22

shs acts in *Drosophila* eye development: TREISMAN, LAI AND RUBIN 121, 2835.

Tumour suppressor

Drosophila lats gene encodes a putative protein kinase: XU, WANG, ZHANG, STEWART AND YU 121, 1053.

twist

mesodermal patterning in *Drosophila*:
BORKOWSKI, BROWN AND BATE 121,
4183.

Two-hybrid

pelle activation at the plasma membrane: GALINDO, EDWARDS, GILLESPIE AND WASSERMAN 121, 2209.

Tyrosine kinase

mosaic analysis of *let-23* gene function: KOGA AND OHSHIMA **121**, 2655.

sensory deficiencies in trk double mutant mice: MINICHIELLO, PIEHL, VAZQUEZ, SCHIMMANG, HOKFELT, REPRESA AND KLEIN 121, 4067.

Tyrosine kinase receptor

FGF-8 isoforms activate FGFR2c, 3c, and 4: MACARTHUR, LAWSHE, XU, SANTOS-OCAMPO, HEIKINHEIMO, CHELLAIAH AND ORNITZ 121, 3603.

truncated trkB in the developing chick: BIFFO, OFFENHAUSER, CARTER AND BARDE 121, 2461.

Tyrosine phosphorylation

mouse sperm capacitation: VISCONTI, BAILEY, MOORE, PAN, OLDS-CLARKE AND KOPF 121, 1129.

regulation of mouse sperm capacitation: VISCONTI, MOORE, BAILEY, LECLERC, CONNORS, PAN, OLDS-CLARKE AND KOPF 121, 1139.

T (Brachyury) gene

sea urchin *T* gene expression: HARADA, YASUO AND SATOH **121**, 2747.

t complex

transcriptional repression in germ cells: O'NEILL AND ARTZT 121, 561.

Ultrabithorax

Hox genes and segment identity: CASTELLI-GAIR AND AKAM 121, 2973.

Ultrabithorax target genes

DWnt-4, a novel Drosophila Wnt gene: GRABA, GIESELER, ARAGNOL, LAURENTI, MARIOL, BERENGER, SAGNIER AND PRADEL 121, 209.

Ultraviolet

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

unc-4

control of VA motor neuron development: MILLER III AND NIEMEYER 121, 2877.

unplugged

regulation of gene expression in the CNS: CUI AND DOE 121, 3233.

3' Untranslated region

translational control of Xenopus FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI 121, 1775.

Urodele

homeobox genes and limb regeneration: GARDINER, BLUMBERG, KOMINE AND BRYANT 121, 1731.

Urogenital development

Pax-2 required for urogenital development: TORRES, GOMEZ-PARDO, DRESSLER AND GRUSS 121, 4057.

Urokinase

proteinase expression in mouse implantation: HARVEY, LECO, ARCELLANA-PANLILIO, ZHANG, EDWARDS AND SCHULTZ 121, 1005.

Uterine development

uterine fate induction in *Caenorhabditis*: NEWMAN, WHITE AND STERNBERG 121, 263.

Uterus

Hoxa 11 structure, expression and function in fertility: HSIEH-LI, WITTE, WEINSTEIN, BRANFORD, LI, SMALL AND POTTER 121, 1373.

Vascular cell adhesion molecule

VCAM-1-deficient mice: KWEE, BALDWIN, SHEN, STEWART, BUCK, BUCK AND LABOW 121, 489.

Vascular development

Arabidopsis Athb-8 expression in procambial cells: BAIMA, NOBILI, SESSA, LUCCHETTI, RUBERTI AND MORELLI 121, 4171.

Vegetal cortex

dorsal activity in Xenopus eggs: HOLOWACZ AND ELINSON 121, 2789.

two pathways for vegetal localization: KLOC AND ETKIN 121, 287.

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

Vegetal plate territory

specification in sea urchins: RANSICK AND DAVIDSON 121, 3215.

Vein differentiation

ventral veinless in Drosophila development: DE CELIS, LLIMARGAS AND CASANOVA 121, 3405.

ventral veinless

in *Drosophila* development: DE CELIS, LLIMARGAS AND CASANOVA 121, 3405.

Ventralization

Wingless function in the leg disc: WILDER AND PERRIMON 121, 477.

Versican

localization in barrier tissues: LANDOLT, VAUGHAN, WINTERHALTER AND ZIMMERMANN 121, 2303.

Vertebrate

retinal determination by Notch selection: AUSTIN, FELDMAN, IDA JR. AND CEPKO 121, 3637.

XNkx-2.3, a second vertebrate homologue of tinman: EVANS, YAN, MURILLO, PONCE AND PAPALOPULU 121, 3889.

Vertebrate segment polarity genes

genetic control of cerebellar patterning: MILLEN, HUI AND JOYNER 121, 3935.

Vertical signalling

induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

Vestibular ganglion

inner ear defects of *trkB* and *trkC* mutant mice: SCHIMMANG, MINICHIELLO, VAZQUEZ, SAN JOSE, GIRALDEZ, KLEIN AND REPRESA 121, 3381.

vestigial

wingless induces transdetermination: MAVES AND SCHUBIGER 121, 1263.

Vg1

mesoderm induction by soluble Vg1: KESSLER AND MELTON 121, 2155.

Vg 1

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

Videoimaging

dynamics of thin filopodia during sea urchin gastrulation: MILLER, FRASER AND MCCLAY 121, 2501.

Videomicroscopy

role for PNA-binding molecules in migration of avian trunk neural crest: KRULL, COLLAZO, FRASER AND BRONNER-FRASER 121, 3733.

Videomicroscopy

tissue progenitors in zebrafish gastrula: SHIH AND FRASER 121, 2755.

Vimentin

ECM and PTHrP regulate parietal endoderm: BEHRENDTSEN, ALENANDER AND WERB 121, 4137.

virilizer

vir is a regulator of Sxl in Drosophila: HILFIKER, AMREIN, DUBENDORFER, SCHNEITER AND NOTHIGER 121, 4017.

Visceral endoderm

GATA-4 and endoderm differentiation: SOUDAIS, BIELINSKA, HEIKINHEIMO, MACARTHUR, NARITA, SAFFITZ, SIMON, LEIDEN AND WILSON 121, 3877.

Visceral mesenchyme

endothelial specific promoter: SCHLAEGER, QIN, FUJIWARA, MAGRAM AND SATO 121, 1089.

Visceral mesoderm

DWnt-4, a novel Drosophila Wnt gene: GRABA, GIESELER, ARAGNOL, LAURENTI, MARIOL, BERENGER, SAGNIER AND PRADEL 121, 209.

Visual system development

polysialic acid in the optic pathway: YIN, WATANABE AND RUTISHAUSER 121, 3439.

Vital labeling

myogenic cell migration in chick embryos: HAYASHI AND OZAWA 121, 661.

Vitamin A

CRABPI and CRABPII knockout: LAMPRON, ROCHETTE-EGLY, GORRY, DOLLE, MARK, LUFKIN, LEMEUR AND CHAMBON 121, 539.

polydactyly in CRABP-II mutant mice: FAWCETT, PASCERI, FRASER, COLBERT, ROSSANT AND GIGUERE 121. 671.

Vulval induction

mosaic analysis of *let-23* gene function: KOGA AND OHSHIMA **121**, 2655.

Wallerian degeneration

periaxin in myelinating Schwann cells: SCHERER, XU, BANNERMAN, SHERMAN AND BROPHY 121, 4265.

Wilms' tumor

repression of Pax-2 by WT1: RYAN, STEELE-PERKINS, MORRIS, RAUSCHER III AND DRESSLER 121, 867.

Wing

en, hh and dpp in *Drosophila* wing development: ZECCA, BASLER AND STRUHL **121**, 2265.

genetic analysis of α_{PS1}: BROWER, BUNCH, MUKAI, ADAMSON, WEHRLI, LAM,

FRIEDLANDER, ROOTE AND ZUSMAN 121, 1311.

groucho and hedgehog regulate engrailed: DE CELIS AND RUIZ-GOMEZ 121, 3467.

proximal-distal pattern in *Drosophila* wings: NG, DIAZ-BENJUMEA AND COHEN 121, 589.

Wing disc

Drosophila engrailed and developmental compartments: TABATA, SCHWARTZ, GUSTAVSON, ALI AND KORNBERG 121, 3359.

engrailed and wing morphogenesis: GUILLEN, MULLOR, CAPDEVILA, SANCHEZ-HERRERO, MORATA AND GUERRERO 121, 3447.

organizing activity in the *Drosophila* wing: DIAZ-BENJUMEA AND COHEN 121, 4215.

Wing vein

genetic hierarchy of *Drosophila* wing vein development: STURTEVANT AND BIER 121, 785.

Wingless

organizing activity in the *Drosophila* wing: DIAZ-BENJUMEA AND COHEN 121, 4215.

Wingless function in the leg disc: WILDER AND PERRIMON 121, 477.

wingless

and myogenesis: BAYLIES, MARTINEZ ARIAS AND BATE 121, 3829.

cell signalling and adhesion in the foregut: PANKRATZ AND HOCH 121, 1885.

induces transdetermination: MAVES AND SCHUBIGER 121, 1263.

morphogenetic furrow and tissue polarity: MA AND MOSES 121, 2279. Notch and wingless in the fly wing:

RULIFSON AND BLAIR 121, 2813.

segmental patterning of the mesoderm: LAWRENCE, BODMER AND VINCENT 121, 4303.

wg inhibits the morphogenetic furrow: TREISMAN AND RUBIN 121, 3519.

Wingless regulation in *Drosophila*: MANOUKIAN, YOFFE, WILDER AND PERRIMON 121, 4037.

Wnt gene family

dorsalization of the neural tube by non-neural ectoderm: DICKINSON, SELLECK, MCMAHON AND BRONNER-FRASER 121, 2099.

DWnt-4, a novel Drosophila Wnt gene: GRABA, GIESELER, ARAGNOL, LAURENTI, MARIOL, BERENGER, SAGNIER AND PRADEL 121, 209.

paraxial mesoderm myogenic induction: STERN, BROWN AND HAUSCHKA 121, 3675.

properties of *Xenopus dishevelled:* SOKOL, KLINGENSMITH, PERRIMON AND ITOH **121**, 1637.

regulation of axial pattern by Xgsk-3: PIERCE AND KIMELMAN 121, 755.

wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

WTI

repression of Pax-2 by WTI: RYAN, STEELE-PERKINS, MORRIS, RAUSCHER III AND DRESSLER 121,

X chromosome

Caenorhabditis dosage compensation: HSU, CHUANG AND MEYER 121, 3323.

su(Hw) protein and dosage compensation: ROSEMAN, SWAN AND GEYER 121, 3573

X chromosome inactivation

cortex cell dispersion patterns in trangenic mosaics: TAN, FAULKNER-JONES. BREEN, WALSH, BERTRAM AND REESE 121, 1029.

XANF-1

homeobox control of Spemann organizer: ZARAISKY, ECOCHARD, KAZANSKAYA, LUKYANOV, FESENKO AND DUPRAT 121, 3839.

Xhra

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

Xcat-2

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

XDCoH

the cofactor of LFB1 in Xenopus: POGGE V. STRANDMANN AND RYFFEL 121. 1217.

Xenografts

submucosal gland development and morphogenesis: ENGELHARDT, SCHLOSSBERG AND YANKASKAS AND DUDUS 121, 2031.

Xenopus

alteration of mesoderm formation at MBT: KINOSHITA AND ASASHIMA 121, 1581.

anteroposterior specification in the CNS: COX AND HEMMATI-BRIVANLOU 121,

anti-dorsalizing morphogenetic protein: MOOS JR., WANG AND KRINKS 121,

cardiac left-right development: DANOS AND YOST 121, 1467.

composition of the Organizer: VODICKA AND GERHART 121, 3505.

desmin and myofibril-membrane attachment: CARY AND KLYMKOWSKY 121, 1041.

dorsal activity in Xenopus eggs: HOLOWACZ AND ELINSON 121, 2789.

endoderm in Xenopus cardiogenesis: NASCONE AND MERCOLA 121, 515. FGF and noggin neural induction and

patterning: LAMB AND HARLAND 121, FGF signalling in Xenopus: KENGAKU AND

OKAMOTO 121, 3121. gap junctional blockade in early Xenopus embryos: PAUL, YU, BRUZZONE, GIMLICH AND GOODENOUGH 121,

hedgehog gene family of Xenopus: EKKER, MCGREW, LAI, LEE, VON KESSLER, MOON AND BEACHY 121, 2337.

homeobox control of Spemann organizer: ZARAISKY, ECOCHARD, KAZANSKAYA, LUKYANOV, FESENKO AND DUPRAT 121, 3839.

IMZ stiffness in Xenopus: MOORE, KELLER AND KOEHL 121, 3131.

induction of anterior neurectoderm: BLITZ AND CHO 121, 993.

induction of notochord behavior and

differentiation: DOMINGO AND KELLER 121 3311.

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767.

MAP kinase in Xenopus mesoderm induction and axial patterning: LABONNE, BURKE AND WHITMAN 121, 1475.

maternal Xwnt-8b in axial patterning: CUI. BROWN, MOON AND CHRISTIAN 121,

mesoderm induction by soluble Vg1: KESSLER AND MELTON 121, 2155.

mesoderm patterning by FGF: CORNELL, MUSCI AND KIMELMAN 121, 2429.

mesodermal patterning by Brachyury and Pintallavis: O'REILLY, SMITH AND CUNLIFFE 121, 1351.

Nodal-related signaling in mesoderm patterning: JONES, KUEHN, HOGAN, SMITH AND WRIGHT 121, 3651.

PDGF in Xenopus gastrulation: ATALIOTIS, SYMES, CHOU, HO AND MERCOLA 121. 3099.

pHi decrease important for axis formation in Xenopus: GUTKNECHT, KOSTER, TERTOOLEN, DE LAAT AND **DURSTON 121, 1911.**

properties of Xenopus dishevelled: SOKOL, KLINGENSMITH, PERRIMON AND ITOH 121, 1637.

regulation of axial pattern by Xgsk-3: PIERCE **AND KIMELMAN 121, 755.**

Sek-1 and segmental patterning: XU, ALLDUS, HOLDER AND WILKINSON 121, 4005.

sog induces an ectopic axis: SCHMIDT, FRANCOIS, BIER AND KIMELMAN 121, 4319.

tail-forming region: TUCKER AND SLACK 121, 249.

timing of topographic cues: CHIEN, CORNEL AND HOLT 121, 2621.

translational control of Xenopus FGF receptor: ROBBIE, PETERSON, AMAYA AND MUSCI 121, 1775.

two pathways for vegetal localization: KLOC AND ETKIN 121, 287.

two RNA localization patterns in oocytes: FORRISTALL, PONDEL, CHEN AND KING 121, 201.

XDCoH the cofactor of LFB1 in Xenopus: POGGE V. STRANDMANN AND RYFFEL 121, 1217.

XIPOU 2 has direct neuralizing activity: WITTA, AGARWAL AND SATO 121,

XNkx-2.3, a second vertebrate homologue of tinman: EVANS, YAN, MURILLO, PONCE AND PAPALOPULU 121, 3889.

Xotx2 and the fate of anterior regions: PANNESE, POLO, ANDREAZZOLI, VIGNALI, KABLAR, BARSACCHI AND BONCINELLI 121, 707.

XIPOU 2

has direct neuralizing activity: WITTA, AGARWAL AND SATO 121, 721.

a second vertebrate homologue of tinman: EVANS, YAN, MURILLO, PONCE AND PAPALOPULU 121, 3889.

induction of prospective neural crest:

MAYOR, MORGAN AND SARGENT 121, 767.

Xsna

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121 767

Xwnt-8

induction of prospective neural crest: MAYOR, MORGAN AND SARGENT 121, 767. Xwnt-8b

maternal Xwnt-8b in axial patterning: CUI, BROWN, MOON AND CHRISTIAN 121. 2177

Xylem differentiation

late embryo development in Arabidopsis: NAMBARA, KEITH, MCCOURT AND NAITO 121, 629.

function in division versus differentiation: ROGGE, GREEN, URANO, HORN-SABAN, MLODZIK, SHILO, HARTENSTEIN AND BANERJEE 121. 3947.

Yolk sac

GATA-4 and endoderm differentiation: SOUDAIS, BIELINSKA, HEIKINHEIMO, MACARTHUR, NARITA, SAFFITZ, SIMON, LEIDEN AND WILSON 121, 3877

haematopoietic development: GUIMARES, BAZAN, ZLOTNIK, WILES, GRIMALDI, LEE AND MCCLANAHAN 121, 3335.

TGFβ1 controls endothelial differentiation and haematopoiesis: DICKSON, MARTIN, COUSINS, KULKARNI, KARLSSON AND AKHURST 121, 1845.

gametic imprinting and endosperm development: CHARLTON, KEEN, MERRIMAN, LYNCH, GREENLAND AND DICKINSON 121, 3089.

maintenance of the quiescent center: KERK AND FELDMAN 121, 2825.

Zebrafish

cell autonomy of flh in axial mesoderm: HALPERN, THISSE, HO, THISSE, RIGGLEMAN, TREVARROW WEINBERG, POSTLETHWAIT AND KIMMEL 121, 4257.

cloche required by endothelial and blood lineages: STAINIER, WEINSTEIN, DETRICH III, ZON AND FISHMAN 121, 3141.

goosecoid and lim1 expression and axis duplication in zebrafish: TOYAMA. O'CONNELL, WRIGHT, KUEHN AND DAWID 121, 383.

LIM homeobox genes and motoneuronal fate: APPEL, KORZH, GLASGOW, THOR, EDLUND, DAWID AND EISEN 121,

msx genes and zebrafish fin regeneration: AKIMENKO, JOHNSON, WESTERFIELD AND EKKER 121, 347.

neural fate maps: WOO AND FRASER 121, 2595

nk2.2 gene: BARTH AND WILSON 121, 1755.

Pax proteins and eye development: MACDONALD, BARTH, XU, HOLDER, MIKKOLA AND WILSON 121, 3267. role of FGF activity in axis formation:

- GRIFFIN, PATIENT AND HOLDER 121,
- Sek-I and segmental patterning: XU, ALLDUS, HOLDER AND WILKINSON 121, 4005.
- wnt8 and wnt8b expression in zebrafish embryos: KELLY, GREENSTEIN, EREZYILMAZ AND MOON 121, 1787.

Zinc finger

- dpp signaling requires schnurri: STAEHLING-HAMPTON, LAUGHON AND HOFFMANN 121, 3393.
- terminal differentiation in Caenorhabditis: ROUGVIE AND AMBROS 121, 2491.

Zona pellucida

- coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.
- mouse egg activation: AYABE, KOPF AND SCHULTZ 121, 2233.

ZP1

coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.

ZP2

coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.

ZP3

coordinate expression of the zona genes: EPIFANO, LIANG, FAMILARI, MOOS JR. AND DEAN 121, 1947.

Zygotic transcription

transcriptional activation of the mouse zygotic genome: CHRISTIANS, CAMPION, THOMPSON AND RENARD 121, 113.